

UNIVERSITY  
OF TORONTO

# Bulletin

NUMBER 13  
42nd YEAR  
MONDAY,  
FEBRUARY 27,  
1989

## TA strike hits A&S hardest

by Karina Dahlin

THERE IS considerable disparity in the extent of disruption to different sectors of the University resulting from the five-day-old strike by teaching assistants.

The greatest impact has occurred in non-science courses in the Faculty of Arts & Science, says David Cook, vice-provost (staff functions).

"The vast majority of classes in the professional faculties, as well as the science courses in A&S, are continuing in normal fashion," says Cook. "In some arts and science classes the effects have been more marked."

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Cook said that in departments such as philosophy and English some classes were suspended while others were "limping on." A more accurate picture of how many TAs are striking will emerge as the supervising professors file their weekly reports on attendance.

Provost Joan Foley plans to meet later this week with principals, deans, directors and chairs to discuss the strike. A meeting with Local 2 of the Canadian Union of Educational Workers is a possible next step.

The strike began Feb. 23 after a "final offer" vote the previous day organized by the Ministry of Labour at the request of the University. Of the approximately 2,400 teaching assistants, 1,402 voted. Of those, 825 or 58.8 percent rejected the University's final offer.

Picket lines are up at, among other places, the King's College Rd. and Wellesley St. entrances to campus, Robarts Library, the Medical Sciences Building, the Borden Building and at Erindale and Scarborough.

In a Feb. 14 memo to PDD&C, Foley said the University had made a fair offer to the union, "but a number of issues remain which the union believes should be included in the collective agreement which the University does not."

"We all share a concern over the number of students in our classes as well as the number of teaching assistant positions available. Here, as elsewhere, the effects of underfunding have affected our ability to teach students at the level we would wish."

"It is not a normal nuts-and-bolts-issue strike," said John Parker, director of labour relations.

Wages are not the issue, the union said. "We need fundamental language on the right to grieve unfair hiring decisions, some form of job security, fair and equitable hiring criteria and language on class size limits," said Peter Trnka, chair of CUEW Local 2.

U of T is not familiar with labour



Teaching assistants walk the picket line outside Robarts Library

JEWEL RANDOLPH

disputes. The first strike at the University, and the only one until last week, occurred in 1975 when full-time library workers walked out. The dispute was over wages and lasted 19 days.

### Strike pay

CUEW will pay teaching assistants on the picket line \$10 an hour, up to 10 hours a week, starting the second week of the strike. Currently, wages for working TAs range from \$17.83 to \$22.80 an hour.

Faculty and staff, including members of other bargaining units at the University, are required to report for work.

The University of Toronto Faculty Association has decided not to take a stand on the strike, said Fred Wilson, president. The UTFA executive has directed him to call a special general meeting to discuss the rights and obligations of faculty members during the TA strike. The meeting will likely be held March 8, he said.

According to guidelines issued by the provost's office, individuals should not be asked to  
*See STRIKE : Page 2*

## Adopt grievance procedures, all institutions told

THE ACADEMIC BOARD has approved a resolution calling on institutions federated or affiliated with the University to adopt grievance procedures for faculty members and librarians "based on the ideals of fairness, openness, honesty and respect for individuals."

At its Feb. 9 meeting, the board also urged Trinity College and Professor Marsha Hewitt to find a way to resolve their dispute — if necessary, by binding arbitration.

Hewitt has filed a grievance against Trinity with the Ontario Human Rights Commission. In it she says she was denied a tenure-stream position in the college's Faculty of Divinity as a result of discrimination on the basis of gender, marital and family status.

Hewitt and the college have so far been unable to reach an agreement on a dispute-resolution mechanism. While Trinity's Faculty of Arts is subject to University grievance procedures, the Faculty of Divinity is not.

## Kirkness new adviser on undergraduates

by Jane Stirling

JOHN KIRKNESS of the Division of Humanities at Scarborough College has been appointed to the newly created position of provost's adviser on undergraduate education for a term ending June 30, 1992.

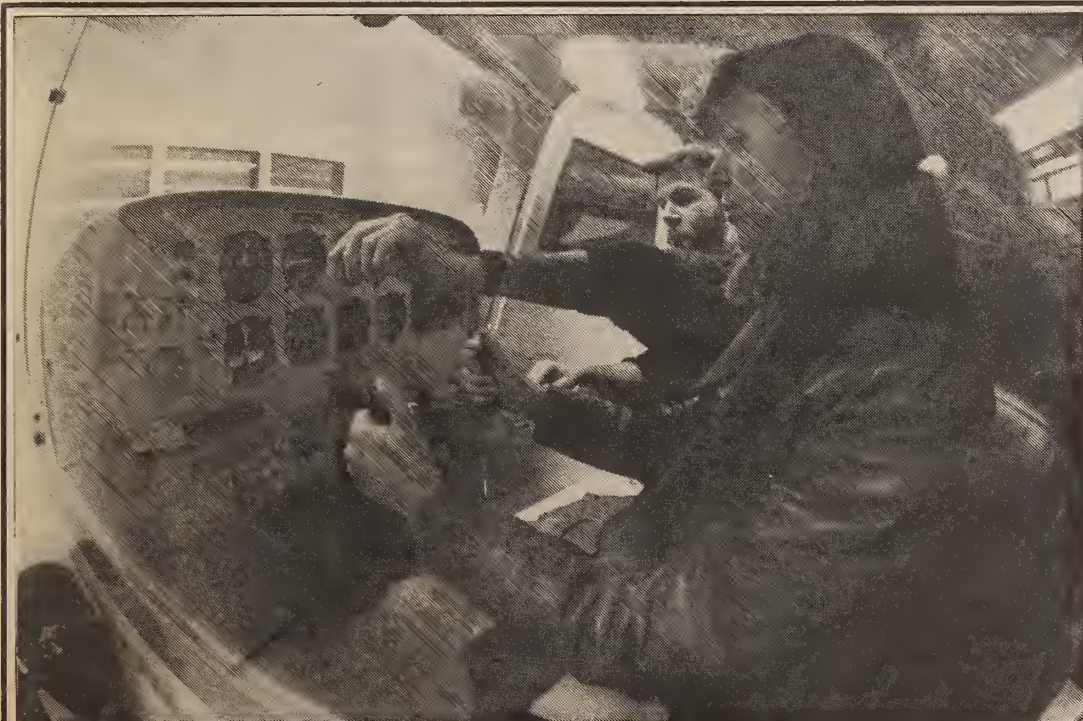
Kirkness will "act as a catalyst" among the various University divisions to promote the development of policy initiatives, said Provost Joan Foley. He will recommend policies, programs and actions "designed to promote the intellectual development of undergraduates and to enhance the environment for teaching and learning."

The position was created, Foley said, to deal with the impact of similar undergraduate concerns in different academic divisions.

"It seemed to me there were certain matters that academic units couldn't deal with in isolation, issues that affected all colleges or more than one discipline."

*See KIRKNESS : Page 2*

**Philippe Rushton's controversial research is causing quite a stir. See pages 9 and 16.**



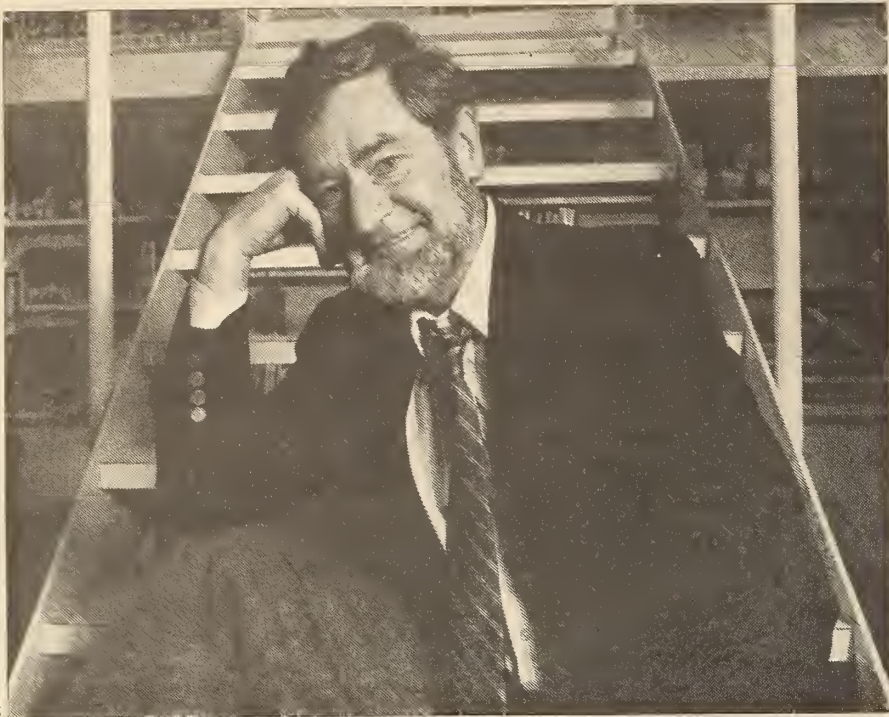
### Preparing for take-off

All systems are go for this elementary school student as she familiarizes herself with the controls of a link trainer at the University's Engineering '89: Future Horizons seminar. Eric Edwards, a graduate student at the Institute for Aerospace Studies, shows her how

the machinery simulates the flight of a Cessna aircraft. About 200 elementary and high school students and their teachers attended the one-day event Feb. 15. It was designed to expose young women to various aspects of an engineering education.

GREG HOLMAN

# Kirkness to focus on student experience



John Kirkness

Continued from Page 1

Kirkness will focus on ways to enhance student experience, faculty professional development and curriculum. He will establish priorities through consultations with colleagues and students in the undergraduate colleges and faculties.

Possible issues he may address include ways to assist students in the transition from high school to university, including academically related activities in orientation; how to help undergraduates develop strong communication skills; encouraging and recognizing excellence in teaching; creating opportunities for interactive learning experiences, including the use of computer-assisted instruction; and methods of assessing student performance.

## Teaching and learning

Kirkness was director of the University's Office of Educational Development from 1976 to 1982, a position that involved ways to improve the quality of teaching and learning at U of T.

From 1982 to 1984, he chaired a sub-committee of the Academic Affairs Committee on Curriculum & Standards. He also chaired the Council of Ontario Universities' committee on teaching and learning for three years in the late 1970s.

Kirkness completed his doctorate in France in 1963 before returning to his native New Zealand as a lecturer in French at the University of Auckland.

In 1968, he joined the staff at Scarborough where he teaches French language and linguistics. In 1974, he was named faculty fellow for excellence in teaching.

He was chair of the provost's advisory committee on bilingualism from 1985 to

1987 and is the chair-designate on OISE's modern language centre advisory committee.

During his appointment, he will continue to teach one undergraduate course at Scarborough. This spring he will move into an office at Innis College.

## UTFA, administration to begin talks March 3

THE UNIVERSITY and the faculty association enter salary and benefit talks with a mediator March 3.

UTFA submitted a list of its bargaining proposals for the 1989-90 year to the administration last November.

Major items it wants the University to address include improved indexation of the pension plan, a restoration of salaries in accordance with the 1982 Burkett Award and the removal of ceilings for associate professors, librarians IIIs and tutors.

New proposals on workload, the Toronto housing crisis and female faculty salaries will be under discussion as well as carry-over items from other years concerning dental plan improvements and attempts to alter the student-teacher ratio for tutors and librarians.

The University and the faculty association began negotiations last month. When talks broke down, a mediator was appointed.

## Strike affects classes

Continued from Page 1

take on duties beyond their normal responsibilities; however, people may voluntarily choose to do so. Replacements for teaching assistants may not be hired.

"If teaching assistants elect to work, they may continue with their duties as assigned previously, or they may be reassigned other or modified duties in the same course. However, teaching assistants who do work should not be requested to work additional hours beyond those originally contracted for," the document states.

In cases where a course has five tutorials, for example, and one TA goes on strike, arrangements must be made

for the section without a TA.

"If nothing suitable can be arranged, then all tutorials or labs in the course should be cancelled. In this event we would continue to pay the TAs who are willing to work, though their duties might be changed," the document states.

Some TAs are fully responsible for a course. Cook did not know exactly how many, but said it was not a lot. One union spokesperson said there were at least 15. If TAs in that capacity choose to strike and if alternative arrangements cannot be made, the course will be suspended.

The University will seek a suspension of certain sections of the grading practices policy. This could mean that some students will get their final assessment before the end of the term. In other cases, it could mean that papers, essays and tests will be returned without comments.

Students will continue to be able to appeal their grades, "except for appeals based on those sections of the grading practices policy for which an exemption may have been approved." The academic term will not be extended to compensate for lost courses, but students will get a refund of their fees if their course is cancelled.

### CANCER PREVENTION You Can Have A Hand In It

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Bookstore credit cards may still be used until 31 March 1989, but only if outstanding balances are within the sixty-day limit.

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## Order of Canada honours

THREE RENOWNED members of the University community joined the list of the country's top achievers following their induction into the Order of Canada in January.

Professor Emeritus Gordon Patterson was named an officer of the order while Professor Emeritus Oskar Morawetz and Principal C. Douglas Jay of Emmanuel College were named as members.

Companion of the order is the highest civilian award in Canada followed by officers — the second highest order — and members.

Patterson, the founder and first director of the Institute for Aerospace Studies, graduated from U of T with an MA and PhD in physics in 1935. He taught at the University from 1947 until his retirement in 1974. Among his other honours is the McCurdy Award, Canada's highest award in the aerospace sciences.

He served as president of the Canadian Aeronautics & Space Institute and was the first Canadian to present the "Wright brothers" lecture to the American Institute of Aeronautics & Astronautics. He is the recipient of honorary degrees from the universities of Alberta, McGill and Waterloo.

Morawetz, a popular Canadian composer who retired from teaching music at the University in 1982, was born in Czechoslovakia in 1917. He emigrated to Canada in 1940 and joined the U of T music faculty in 1951. His compositions, which have been awarded numerous national and international honours, have included those for orchestra, chamber, piano, choir and voice. His music is among the most performed of any by a Canadian composer and his orchestral compositions have been played by more than 100 orchestras on four continents.

Jay, the founding director of the Toronto School of Theology, has served in important positions in the United Church of Canada, the World Council of Churches and many scholarly societies here and abroad. He is an international elder of the interfaith movement. His wisdom and diplomacy have created understanding and cooperation among Christian and non-Christian religious communities.

The article in the Feb. 6 *Bulletin* on U of T people who had received Order of Canada honours neglected to mention these three.

## UNIVERSITY OF TORONTO Bulletin

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Material may be reprinted in whole or in part with appropriate credit to the *Bulletin*.

Published every two weeks by the Department of Communications.

Submissions for publication must be in the *Bulletin* office, 45 Willcocks St., University of Toronto, Toronto, M5S 1A1, 10 days before publication date unless otherwise specified.

**Editorial Enquiries:** 978-6981

**Distribution Enquiries:** 978-4933

**Advertising Enquiries:** 978-4933  
Display advertising space must be reserved two weeks before publication date.

**FAX:** 978-7430

# Library workers ratify new contract

THE UNIVERSITY'S full-time unionized library workers have ratified a new collective agreement that provides for an average wage increase of 13.7 percent over two years.

Under the agreement, members will receive an increase in the first year of \$1,600 or 4.5 percent, whichever is greater. In the second, wages will rise \$1,550 or 4.5 percent. This means an average wage increase of 7.3 percent in the first year, 6.4 in the second.

Ninety percent of library workers are in the highest wage category. They will earn between \$21,960 and \$39,578 in the first year and between \$23,510 and \$41,359 in the second. Increases are retroactive to July 1, 1988.

In a Feb. 22 ratification vote, 184 members accepted the agreement, 41 rejected it. The 280 people in the bargaining unit provide administrative and technical services.

Negotiations between the union and U of T began last June. A conciliator, appointed in December, met with the two sides in January and early February. The tentative agreement was reached Feb. 16.

## First contract

Tom Bribresco, president of the Canadian Union of Public Employees, Local 1230, said the new agreement is among the best negotiated with the University since the first contract was signed in 1972.

"When work improvements are considered with wage increases, it's the best agreement that I know of that has been negotiated for a CUPE local in Metro for the 1988-89 year," he said.

John Parker, the University's director of labour relations, said he was pleased the two sides had "amicably resolved our differences."

Bribresco said the contract also includes improvements in vacations, job posting provisions, seniority rights for transfers and promotions, grievance procedures and notification procedures in cases of technological change.

Meanwhile, a ratification vote for 240 part-time library workers has been scheduled for March 1. Bribresco said that while details of the tentative agreement reached Feb. 17 have not yet been released, it "mirrors" the agreement with full-time workers on wages and some other issues.

The University and the union have also agreed to start discussions for pay equity adjustments within 60 days.



JEWEL RANDOLPH

## A Nobel gesture

University Professor John Polanyi, winner of the 1986 Nobel Prize in chemistry, presents his medal to Professor Ann Saddlemeyer, master of Massey College. Polanyi donated the medal to Massey at a

Feb. 23 ceremony attended by about 100 people. It is permanently mounted in the small dining room. Those who wish to see it are asked to call the college for an appointment.

# Ethics policy should be broadened

THE UNIVERSITY'S proposed campus media policy should be broadened to include the activities of all student societies, says David Neelands, assistant vice-president (student affairs).

In an interview following the Feb. 7 meeting of the University Affairs Board, Neelands said he would like a more general policy dealing with University expectations for media and all student activities, including orientation and organized parties. Orientation skits, he noted, are often criticized for prejudice.

Some board members were critical of

an earlier proposal to establish a campus media policy because they believed the suggested guidelines would infringe on freedom of speech. The earlier draft stated that media receiving University privileges "act under an appropriate code of ethics."

The idea of establishing a media policy originated last year following complaints that the Engineering Society published sexist material in the October issue of the *Toiike Oike*. Last month, the society adopted a policy involving a code of ethics and review board.

"I can't help feeling my initiatives

have made a difference," Neelands said. "The *Toiike* is proposing what it should have done 30 years ago."

## Focus attention

Graduate student Glen Jones, vice-chair of University affairs, said the ethics policy should be monitored by an advisory committee and should focus attention on educating and changing prejudicial attitudes. The policy should explain "why certain behaviour is intolerable and how to educate these people."

Barry McCartan, a part-time student representative, said the University should be wary of imposing a "punitive policy" since incidents of prejudice in student publications are isolated.

"Freedom of speech is crucial to a university. The essence of a university is a forum for free and rational discussions."

Campus newspapers should create their own policies but the board should ensure they understand and abide by them, McCartan said. The University ombudsman should provide an avenue for appeals.

Undergraduate representative Charles Blattberg said the University has a responsibility to adopt a policy "because these incidents [of abuses in campus media] are happening far too often."

"These newspapers are using University resources and therefore I feel I'm a contributor to what is being produced. When issues of human rights are being infringed on, this board has the right to revoke their privileges."

# Research into fertilization may result in advanced new spermicide

A MEDICALLY advanced type of spermicide may be the result of research by a U of T biochemist.

Professor Clifford Lingwood of the Departments of Clinical Biochemistry, Biochemistry and Microbiology has discovered a way to inhibit male fertility.

He has identified the molecular reaction that occurs between a protein on an egg cell and a component on the sperm cell surface. When the two bind together, conception occurs.

To prevent fertilization, there must be an interfering agent that prevents the sperm from binding to the egg.

If Lingwood's discovery results in a

spermicide, it could be the first such contraceptive that is focused on a specific molecular interaction. Most spermicides on the market are "non-specific," capable of dissolving any cellular membrane.

Until now, the production of spermicides has not come under US Food & Drug Administration regulations because the contraceptive is not classified as a drug, Lingwood explained.

However, pressure from pharmaceutical companies to reclassify spermicides as drugs (to avoid possible costly law suits) could result in more stringent FDA testing. This would lead companies to investigate alternative substances such as Lingwood's spermicide that would be specifically targeted to a component reacting only with sperm.

## Confuse sperm

Over the past 10 years, Lingwood has investigated the formation of sperm cells. In 1985 he discovered the presence of the egg protein that binds with the sperm.

He has recently identified two possible methods of interfering with the process of fertilization.

Through studies on animals, done in collaboration with a colleague who heads a research program on "test-tube babies" at Ottawa Civic Hospital, Lingwood has discovered one way is to purify the naturally-produced egg protein and add it *in vitro* to the sperm and egg cell.

"If you add more of the protein, you will confuse the sperm and block the binding," Lingwood said.

Another method involves a substance produced by an infectious organism called a mycoplasma, which is a form of

bacteria. The mycoplasma has a protein that binds to a component — a sulfated glycolipid — on the sperm cell and produces an enzyme that digests the component.

By selectively degrading this component, conception cannot occur.

Lingwood and his three assistants are being funded for the contraceptive study by the US National Institutes of Health. His basic research on sperm cells is funded by the Medical Research Council.

He hopes to produce a spermicide compound for testing on animals in one year. Testing on humans will follow.

# Tuition fees on the way up

TUITION FEES will go up between 7.5 and 7.8 percent next year. The increase means that the cost of a full course load (five courses) in the Faculty of Arts & Science will rise to \$1,520 from \$1,410.

The Business Board recommended at its meeting Feb. 13 that the new tuition fee schedule be adopted by Governing Council at its March 9 meeting.

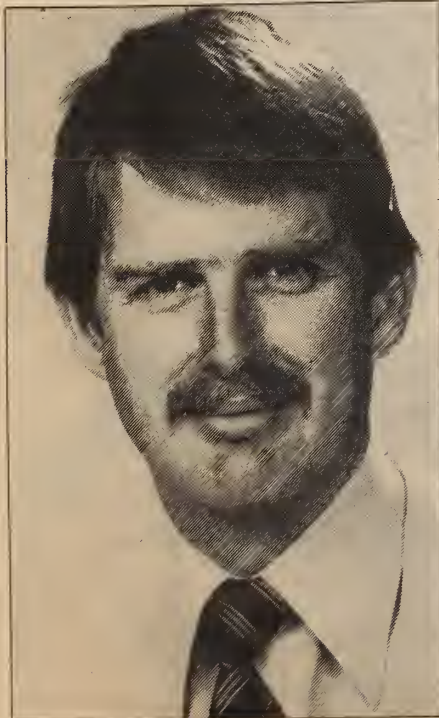
According to the proposed fee schedule, tuition for programs in engineering and architecture will be \$1,646 in 1989-90, up from \$1,531 this year; for the doctor of medicine program \$1,929, up from \$1,794; and for programs in the School of Graduate Studies \$1,905, up from \$1,771.

Foreign students attending U of T as arts and science undergraduates will pay \$9,326, up from \$8,675. As undergraduate students in medical school, foreign students will pay \$5,721, up

from \$5,322. Graduate students from other countries will be charged \$8,743, up from \$8,133.

A 7.5 percent increase in tuition fees was announced by the Ministry of Colleges & Universities last month. It is equal to the ministry's overall increase in operating support to the universities for 1989-90. The government has also approved a 7.5 percent increase in student assistance.

That a number of students, mainly in arts and science, will pay up to 7.8 percent more than in the 1988-89 academic year is a result of the way the University calculates the cost. A course fee is based on the cost of a full load of five courses. If 7.5 percent was added to this year's fee of \$1,410, the result would be \$1,515.75. To make the number divisible by five, it is raised to \$1,520, or 7.8 percent.



Clifford Lingwood

# AIDS policy approved

A UNIVERSITY AIDS policy, which stresses human rights and educational programs, was approved at the University Affairs Board Feb. 7.

The final document, still to be approved by Governing Council, was adopted by the board following revisions to the draft that appeared in the Dec. 12 *Bulletin*. The Faculty of Medicine, among others, provided input when the policy was circulated for comment but no "substantive" changes were made, said Alec Pathy, vice-president (human resources).

However, a greater emphasis on patient confidentiality is now included, he said. The final document also specifies the development of "additional appropriate policies or procedures" in divisions where there is a risk of exposure to HIV-contaminated blood, body fluids or viral preparations.

Professor Gerald Israelstam of Scarborough College expressed concern that the policy doesn't deal directly with the issue of a flexible work schedule for employees with AIDS. Patients with the disease often cannot handle a regular eight-hour schedule, he noted.

Pathy said the issue of flexible hours is

not addressed specifically in the document although the guidelines state that requests for "special consideration" in terms of academic programs, employment responsibilities, accommodations or other services will be considered as they would be for any other illness or disability.

"If special considerations are provided for AIDS patients, then we must provide these for anyone with an illness," he said, adding that this could have an impact on departmental budgets.

## Gross gets new appointment

DR. ALLAN GROSS of the Department of Surgery has been appointed chair of orthopaedic surgery, a new position and the first endowed chair of its kind in Canada.

The Albert & Temmy Latner Chair in Orthopaedic Surgery will be used to develop research and educational programs. It is funded by Albert Latner, chair of the boards of Dynacare Health Group Inc., the Shiplake Group and Greenwin Developments.

Gross has headed the division of orthopaedic surgery since 1986. It includes the orthopaedic units of many of the teaching hospitals affiliated with the University and is a leading centre of orthopaedic surgery.

He also runs a clinical practice at the orthopaedic surgery division of the Toronto and Mount Sinai Hospitals. A U of T graduate, he is known for his pioneering work in bone and cartilage transplantation.

David Askew, president of the University of Toronto Staff Association, said he is pleased the policy addresses two major concerns — the legal rights of employees who may have or be in danger of contracting AIDS and the importance of preparing additional educational policies for those at risk.

The Policy with Respect to AIDS for the University of Toronto includes information about AIDS and 12 guidelines. Pathy said an advisory committee reporting to the director of environmental health and safety will be established to review and update the information.

Designed to alleviate the "fear and misapprehension" surrounding AIDS and to ensure fair treatment of those who contract the disease, the policy applies to all faculty, staff and students at U of T.

It was drafted after a review of existing policies, including those of the City of Toronto, Wilfrid Laurier University, Carleton University and the University's Faculty of Medicine.

## Breakthrough: almost half way

WITH ANOTHER million dollars recently secured for Breakthrough, the University is getting ready to announce the half-way mark of the \$100 million drive.

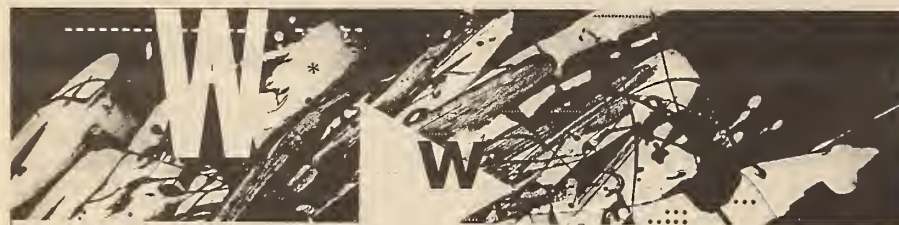
Two weeks ago, Gordon Cressy, vice-president (development and university relations), went to New York to formally accept \$1 million from the Associates of U of T. The group was set up in 1947 to receive gifts for the University (and issue tax receipts) in the US. It has a capital fund which will donate \$500,000 to Breakthrough this April and the same amount in April 1990.

The money was given to fund the Institute for International Programs, expected to begin operations in July.

Elizabeth Wilson, Cressy's executive assistant, told the Business Board at its Feb. 13 meeting that Breakthrough is expected to raise \$50 million by the first week of March.

## Tanenbaum Prize

Professor Michael Marrus of the Department of History has won the Joseph Tanenbaum Prize for *The Holocaust in History*, published in 1987 by Lester & Orpen Dennys. The prize winners are selected by the book committee of the Toronto Jewish Cultural Council. The award was presented Feb. 16.



### UNIVERSITY OF TORONTO ALUMNI ASSOCIATION

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## Interim housing policy

THE INTERIM policy on student housing represents "a degree of compromise" between the needs of first-year and second-entry students, says David Neelands, assistant vice-president (student affairs).

The University Affairs Board approved the policy, which reserves half the spaces in U of T residences for first-year students, at its Feb. 7 meeting. It must still be approved by Governing Council.

U of T "cannot ignore the rights of those whom it admits and of those who aspire to be admitted," Neelands said. The needs of new students "must be balanced with considerations of the quality of life in residences."

Parts of the policy were revised following consultations with members of the campus community. At its January meeting, the board asked Neelands to "soften" those priorities that allotted at least 50 percent of the places in each residence for first-year students and that restricted residency for second-entry students to three years.

In his memo he said he softened the statements by increasing the role that deans of residences and academic divisions will have in carrying out the policy objectives.

Vice-chair Glen Jones, a graduate stu-

dent, was critical of the policy's three-year housing restriction on second-entry students.

"To create an environment where a student is getting close to completing his thesis and then to be told he has to leave, just isn't fair," he said. "We need a flexible policy."

Neelands said the policy ensures flexibility by providing a mechanism for an annual review after the three-year period. If the residence dean or warden feels vacating the residence would have an adverse effect on the student's academic work, there may be an extension of up to one year at a time.

In addition to these changes, the policy includes two new priorities. The needs of women students in the professional faculties will be taken into consideration in the distribution of places and geographic origin of a first-year student will not take precedence over other criteria in allotting residence space.

The policy also includes a clause giving full-time students preference over part-time students in the allocation of spaces.

The interim policy is to remain in force until the supply of student housing more adequately reflects the demand for places. The priorities will be reviewed no later than June 1994.



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# Forguson is new UC principal

by Jane Stirling

MOVING DOWN will actually be a move up in Lynd Forguson's career. The philosophy professor will vacate his lofty perch in the University College tower — "it's a lovely view from up here" — to assume the position of UC principal this summer. His new office is on the ground floor.

Forguson, a faculty member at the University since 1969, will assume his seven-year appointment July 1. He is 51, the father of two children and an avid abstract painter. He replaces Professor Peter Richardson, who has been UC principal since 1977.

Leading the college into the 1990s is an exciting challenge, said Forguson. His priorities will include providing a stronger academic role for the colleges, creating a closer student-college bond and maintaining strong alumni ties.

The next five years at UC will be a time of academic renewal, he noted.

With about 15 faculty soon to retire, the college must respond to its task of appointing new members "in a creative way. How these appointments are made will affect the academic make-up of UC for years to come."

Forguson is eager to see all colleges take a greater role in shaping the education of undergraduate students. He is hoping to persuade the University to give the colleges more responsibility in providing a liberal education.

"First year is rather unstructured for arts and science students," he said. "No one takes direct responsibility for their education and there's a lot of scope for improvement. It's important that their total education be considered."

Apart from academic life, Forguson wants to improve the social atmosphere for UC's off-campus students. By offering a greater variety of social events, he hopes to encourage more students to participate in college activities.

"We face a monumental task in get-

ting students to feel welcome because most don't take courses at UC," he said. "We'll have to find out where their interests lie and how we can better serve them."

Forguson will also be focusing on ways to maintain the college's fundraising efforts. Keeping in touch with alumni and reaching out to younger graduates from the 1960s and 1970s will be prime objectives.

## "An eon ago"

A Kentucky native, Forguson received his PhD from Northwestern University in 1964. He was appointed to U of T's Department of Philosophy in 1969. He was the college's registrar from 1971 to 1973, chair of the academic appeals board for the Faculty of Arts & Science from 1977 to 1981 and UC's vice-principal and program director from 1983 to 1986.

Richardson retires as principal after a 12-year term. "It seems like an eon ago that I started as principal," he laughs.

The 54-year-old religious studies professor, who will return to his teaching position after a year's sabbatical, has seen many changes at both the college and University. He said his role as an administrator has been "to know when to say yes. People have good ideas and they need encouraging."

He also believes in the decentralization of authority to enable other administrators to take part in the decision-making process.

During his term of office, Richardson has taken a keen interest in the evolving relationship between the colleges and the University. The 1975 Memorandum of Understanding (the forerunner to the Memorandum of Agreement) widened the teaching scope of the colleges. Prior to the agreement, teaching staff represented six disciplines at UC. Now, they represent 23 disciplines and five faculties.

Calling the change beneficial, Richardson said the college now presents a more accurate reflection of the University in its diversity.

Under the memorandum, interdisciplinary programs in the colleges were

also introduced, a move that had its supporters and detractors. Although some faculty viewed them as unnecessary or insignificant, Richardson said many of these programs "will become the cutting edge of the future."

He is also proud of the renovation work that has been undertaken at UC. Repairs to the main building are complete and work is now under way on the UC Union on St. George St.

"The restoration work is extremely important to the sense of identity and self-worth of the college," he noted.

Without the financial help from alumni, much of the work could not have been completed.

"I take satisfaction in my work with alumni," he noted. "I've spent a lot of time with them and what I've learned could be applied in other parts of the University."

During his term of office, many student activities have been reactivated, including the debating society, tea-tasting club and the college's scholarship dinner.

Richardson said he is looking forward to some rest and relaxation with his wife and family. His sabbatical plans include a summer holiday at his cottage and a vacation in Turkey.



Lynd Forguson

JEWEL RANDOLPH

## Editor's Notebook

NAME THAT PRESIDENT. The *Lakehead University Agora* recently announced an article by Lakehead president Bob Rosehart on George Connell's editorial in the *Globe* — "Inside: Rosehart refutes Cornell's Thesis."

\* \* \*

Richard Lederer, an English teacher at St. Paul's School in Concord, New Hampshire, has pasted together a "history" of the world taken from genuine student bloopers collected by teachers throughout the US from grade eight through university. Here's his history of the world (part 5):

In midevil times most people were alliterate. The greatest writer of the futile ages was Chaucer, who wrote many poems and verses and also wrote literature. During this time, people put on morality plays about ghosts, goblins, virgins and other mythical creatures. Another story was about William Tell, who shot an arrow through an apple while standing on his son's head.

The Renaissance was an age which more individuals felt the value of their human being. Martin Luther was nailed to the door at Wittenberg for selling papal indulgences. He died a horrible death, being excommunicated by a bull. It was the painter Donatello's interest in the female nude that made him the father of the Renaissance.

The government of England was a limited mockery. From the womb of Henry VIII Protestantism was born. He found walking difficult because he had an abcess on his knee.

Queen Elizabeth was the "Virgin Queen." As a queen she was a success. When Elizabeth exposed herself before her troops, they all shouted "hurrah." Then her navy went out and defeated the Spanish Armadillo.

It was an age of great inventions and discoveries. Gutenberg invented

the Bible. Another important invention was the circulation of blood. Sir Walter Raleigh is a historical figure because he invented cigarettes and started smoking. And Sir Francis Drake circumscribed the world with a 100-foot clipper.

\* \* \*

What's in a misspelled name, you ask? Well, there's lots of answers around U of T. **Tony Doob**, director of the Centre of Criminology, says that "virtually anything you can imagine has been used, including Boob, Bood, Dub, Dube and Dude."

**Marianna Van Rossen Hoogendyk**, who teaches in the studio program in the Department of Fine Art, has seen so many misspellings of her name that she has no time to collect them all. She said that the Human Resources Department got her name wrong for twenty years ("it was too long for them") although now they've managed to fit it all in *and* spell it correctly.

**David Jeu**, United Way campaign coordinator, noted a few of the many he's been afflicted with: Tév, Jen, Jew, Jue, Chu, Jev . . .

*Bulletin* writer **Karina Dahlin** often gets Karina Darling, which as misspellings go isn't so bad.

Watch this space for more next issue.

\* \* \*

Renowned theologian **Hans Kung**, who recently coauthored a book with U of T religious studies professor **Julia Ching**, will be lecturing at Con Hall March 9 at 8.00 p.m. His topic is "Religion and the Politics of Peace." Tickets are \$12 in advance and \$15 at the door, although students can get in for \$5. For the reduced rate students must buy their tickets from Muna at the Centre for Religious Studies, Robarts, 14th floor.

## THE MADWOMAN OF CHAILLOT

by Jean Giraudoux  
Adapted by Maurice Valency

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Faculty of Medicine  
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## ACTING DIRECTOR CENTRE FOR HEALTH PROMOTION

A multi-divisional Centre for Health Promotion is being established in the Division of Community Health. The Centre's mission is to improve the health through basic and applied research, education, and service in the field of Health Promotion.

The Acting Director will develop a strategic plan and co-ordinate implementation of the Centre, foster collaborative projects involving researchers and community resources, establish linkages with other institutions, and pursue sources of funding.

The successful candidate should have a degree (Ph.D. or M.D.) in the health or social sciences, experience in an academic setting, expertise in managing large scale research projects, experience in working with government and community organizations relating to health care, and expertise in health promotion and disease prevention. The University of Toronto encourages both men and women to apply for this position.

The Acting Director position will be on a part-time (up to 75%) contractual basis for up to two years. Salary will be based on qualifications and experience.

Closing Date for Applications: **6 March 1989**

Please send a letter of interest and CV to:

Dr. John Hastings, Associate Dean  
Division of Community Health  
Faculty of Medicine, University of Toronto  
12 Queen's Park Crescent West  
Toronto, Ontario, M5S 1A8

## New director

MANDATORY retirement and the need for more faculty are among the problems to be addressed by Marion Perrin, the new executive director of the Ontario Confederation of University Faculty Associations.

Before joining OCUEA Feb. 1, Perrin worked in the arbitration department of the Ontario Nurses Association. A lawyer, she has lectured in law and nursing at George Brown community college and taught at St. Clair in Windsor.

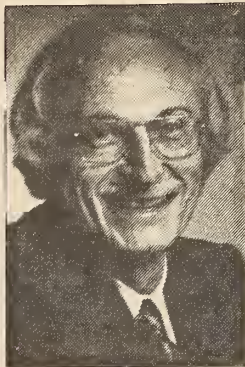
Perrin received her BA in 1971 and her LLB in 1979 from the University of Windsor. She is a member of the Canadian Bar Association and the Ontario Bar Labour Law Section.

# Paul Fox resigns from OCUA

THE RESIGNATION of Professor Emeritus Paul Fox from his position as chair of the Ontario Council on University Affairs (OCUA) last November was not in vain.

Fox, who retired from the Department of Political Science in 1987 and is currently a senior research associate at Victoria College, resigned as head of OCUA to pressure the government into hiring more staff. Two research officers were hired this month and interviews are being held for a bilingual secretary.

"I thought if I resigned, it might provoke a crisis and propel this issue up the government's agenda," Fox said. "The source of my indignation was that we were making no headway at all and it was very frustrating."



Paul Fox

The council was given approval in March 1988 to hire two researchers and a secretary but the hiring process was delayed by red tape. After Fox's departure, OCUA was given approval to advertise for new

positions just before Christmas.

When he left OCUA, there was a complement of five — chair, secretary, administrative officer and two researchers. One of the researchers was occupied with program approvals, leaving the other person to investigate 13 topics.

Fox took over the position as chair of OCUA in February 1987 for a three-year term.

The council acts as an advisory body to the minister of colleges and univer-

sities. It deals with problems related to these institutions, such as additional funding for and reviews of certain programs.

Viv Nelles, a history professor from York University, was appointed interim chair.

## Grosvenor chooses judge, no jury

ANN GROSVENOR elected to be tried by a judge without a jury when she appeared in provincial court Feb. 9. A trial date will be set March 10.

Grosvenor, a former administrative assistant at the Department of Clinical Biochemistry, was arrested in November on charges of breach of trust and fraud over \$1,000. The charges were laid in connection with the disappearance of approximately \$170,000 from departmental accounts between 1981 and 1986.

## Two new committees set up

TWO NEW standing committees have been established under the auspices of the Business Board.

The Human Resources Committee will advise the vice-president (human resources) in the areas of personnel policy, benefit programs and contractual relations with employee groups.

Members will usually be drawn from the Business Board, although one or two may be appointed from outside the board. Employees of the University may not be members.

This concerns Professor James Poapst. At the Feb. 13 board meeting he said an employee on the committee could contribute to the overall understanding of issues.

Alec Pathy, vice-president (human resources), said the presence of an employee would inhibit discussion when contract negotiations with the faculty or staff associations were reviewed.

The other committee, the University

Development Committee, will review and make recommendations to the board on fundraising policies and plans which require the approval of the board or of Governing Council. It will also advise the vice-president (development and university relations).

A proposal presented to the board said the committee will give greater attention to fundraising policy and strategy than the full business board is able to. But the new body will not change the structure or the conduct of Breakthrough, which is directed by the campaign chair, the chancellor, the chair of Governing Council, the president and the vice-president (development and university relations).

Neither committee has the authority to make decisions on behalf of the Business Board. Both will meet in closed sessions. A chair for each of the committees will be named by the board and Governing Council.

## US programs cause problems

FAILURE TO uphold province-wide standards for the US universities that offer degree programs in Ontario could have "calamitous" consequences for higher education in Ontario, President George Connell told the Academic Board Feb. 9.

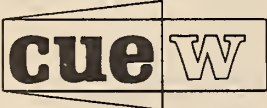
Lyn McLeod, minister of colleges and universities, has rejected advice from the Ontario Council on University Affairs that non-Canadian institutions offering programs in Ontario be required to meet the same academic standards that prevail in publicly funded institutions.

The effect of McLeod's decision is to establish two standards for higher education, one for provincial universities, another for non-Canadian ones, Connell said. Recently US schools have begun to offer extension courses in several Ontario centres leading to masters' degrees in education.

In response to a request from the president for further action, the Academic Board instructed its academic policy and planning committee to consider reviewing admission requirements to the University from applicants with credentials from non-Canadian extension programs.

Dean Tom Robinson of the School of Graduate Studies said the academic community must continue to press the government to uphold province-wide standards, "otherwise the implications for quality are serious indeed."

The province has an obligation to protect both those who will take US MED courses in Ontario and those they will teach in the schools, said Principal Bill Dunphy of St. Michael's College.



## CUEW STRIKE INFORMATION

**L**abour relations has been stalling negotiations with the 2,400 Teaching Assistants, Markers and Demonstrators at this university for the last 8 months only to present their original position as a final offer. Their inflexibility has forced us into the current strike action.

CUEW members are disgusted by the administration's irresponsible bargaining tactics and hold the university entirely responsible for the strike.

We do not think these issues should have forced us to a strike, yet the administration has given us no choice. We are ready to bargain seriously, and have been ready to do so since June 11th, 1988. We are also ready to continue our strike, and refuse to be placated by anything less than a serious effort to redress our concerns.

We are concerned with the quality of education at U of T, yet current constraints imposed by the university do not allow us to do our jobs properly. Further, the administration has always relied on our commitment to our students in the hope of establishing overwork and appalling employment conditions as the norm. Improving our working conditions is the first step in improving undergraduate education at the

University of Toronto.

We have an essential right to have a voice in hiring criteria and in our working conditions and cannot be bought off with a cynical and insulting "settlement bonus".

We need fundamental language on the right to grieve unfair hiring decisions, fair and equitable hiring criteria, graduate student preference in hiring, some form of job security, and an understanding on what constitutes reasonable class size. The list is long only because we have gone with so little.

The administration is now faced with a major strike on all three of its campuses, and must be prepared to bear the entire responsibility of such action.

*It is incumbent on all faculty members to refrain from performing work, either on or off campus, normally done by TAs during the strike. Scabbing is an intolerable and morally reprehensible activity. We are confident that professors will further support us by cancelling their undergraduate classes and graduate seminars. Honour our picket lines, support our strike action. Your support will mean a shorter and less damaging interruption of teaching services.*



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# U of T astronomers aid in discovery of pulsar

by George Cook

U OF T OBSERVERS John Filhaber and Ian Shelton are part of the team that recently recorded data revealing the existence of a neutron star, or pulsar. It is at the centre of Supernova Shelton, found two years ago.

Shelton began searching for the pulsar shortly after he discovered the supernova in the Large Magellanic Cloud (LMC) on Feb. 24, 1987, from the University's observatory at Las Campanas, Chile.

Filhaber took over as U of T's resident observer when Shelton returned to Toronto to complete his MSc. Using a US four-metre instrument and a data recorder called a pulsarator, Filhaber helped make the observations that lead to the second discovery.

The first observations were done on the U of T telescope, but as the supernova dipped below naked eye visibility, the photon-detecting pulsarator was moved to the larger US telescope. The data, collected Jan. 18 in Chile, was sent to Los Alamos, New Mexico, where it was analyzed using a bank of supercomputers, said Professor Robert Garrison of the Department of Astronomy.

The computers were able to detect regular pulses — periodicity — in the LMC emissions. News of the discovery of the pulsar was made public Feb. 9.

"The pulsar turns out to be almost 100,000 times fainter than the naked eye can see, and it is superimposed on top of something that's only 2,000 times fainter," Garrison said.

"It took about two weeks on the computers to get it. By then they had a good idea of what they had, but they checked it for quite some time. We knew several days before the announcement, but we were sworn to absolute secrecy. They were still confirming it and didn't want any leaks, so we didn't even tell our colleagues."

## First pulsar

The first pulsating radio star, or pulsar, was detected Nov. 28, 1967, and the results published Feb. 24 of the

following year. Since then, astronomers have observed dozens. They now estimate that there about 10,000 pulsars in the Milky Way.

Pulsars are stars so dense they emit light only at their poles. The lighthouse effect (the flashing of emissions) occurs as the star spins on its axis.

The discovery of a pulsar at the centre of Supernova Shelton 1987A confirms that the collapse of the blue giant precursor left a neutron star. "Another star might produce a black hole, but this one didn't," Garrison said.

The pulsar is spinning at a rate of about 2,000 revolutions per second and is the fastest object of its kind yet found. The next fastest spins at 600 to 800 revolutions per second.

"At 2,000 times per second it's just a little faster than the breakup speed of an object with that density, so either it's denser than we think or there may be a relativistic factor that we haven't taken into account yet. But it confirms our ideas that a newly formed pulsar would be rapidly rotating and then would slow down," Garrison said.

Spindown occurs very slowly, but observations and measurements are now accurate enough to detect it. "From the spindown rate we will get a lot of information on the mass and lifetime of the object and that has a bearing on all the other pulsars we see in other places."

The data also shows a frequency change in the emissions over an eight-hour period. This indicates the possibility of Jupiter-sized object near the pulsar, causing it to "wobble." For such an object to exist, it would have to have been inside the precursor star at the time of the collapse and explosion, making its existence very difficult to explain.

However, only one set of data has been collected so far, because the clouds of debris from the explosion around the pulsar have not cleared sufficiently to



Ian Shelton standing beside U of T's 24-inch telescope at the University's Las Campanas observatory in Chile.

allow an unobstructed continuous view. (The Jan. 18 data was obtained through a hole in the expanding shell.) Until new information is obtained, the eight-hour periodicity may remain something of a mystery.

## Model predicts

The task ahead is to continue to observe the pulsar, to collect data on the spindown rate and to explain the change over eight hours of the light emissions, Garrison said.

The analysis of the supernova itself has produced a more accurate view of these powerful events. Theoreticians have already developed an accurate mathematical model to predict the "light curve" — a measure of the speed with which the outer shell is expanding. "For the last year and a half the curve has been behaving itself exactly as we had predicted, even before the supernova went off," Garrison said.

Astronomers have also confirmed that the precursor star was in fact a blue supergiant. At first, some thought a companion star may have been involved. The collapse of the blue supergiant was probably triggered by the relatively small amounts of heavy elements — those with greater atomic weights than hydrogen and helium — found in the precursor.

In general, stars in the LMC contain a smaller proportion of heavy elements than those in our own galaxy. Stars die or are transformed when they have expended their fuel. Core collapse occurs

quickly. The tremendous heat generated causes the outer shell, made up of hydrogen and helium, to explode.

At the moment of collapse, the supernova emitted a burst of neutrinos (uncharged elementary particles with virtually no mass). Nineteen were detected at a US facility in an converted mine under Lake Erie, a surprisingly large number given their incredibly small mass and the enormous distances they travel in space to reach the earth.

"Core collapse and the explosion itself — the most violent type of explosion in the universe — produces so much fusion that you must have neutrinos zipping around all over the place. So for our theory of supernovas to hang together, you've got to have neutrinos."

The neutrino detection has also allowed physicists to measure the mass of the subatomic particle more accurately than ever before. By measuring the travel time from the LMC to earth, they have established the mass at about three electron volts, 10 times lower than previously estimated. This has provided evidence against the theory that neutrinos are massive and numerous enough — with enough gravitational impact — to bring the expansion of the universe to an end and cause it to contract.

## Discern disk

While the discovery of the supernova and pulsar have lead to many important advances in knowledge, astronomers are still waiting to calculate the exact distance to the LMC. They will be able to do this when the shell has grown large enough to be detected as a disk with a discernable radius, rather than a point. When the disk is "visible," it will then be possible to calculate the distance to the LMC using its radius and the velocity of the expanding shell, measured in terms of the light curve. Finally, using indices inside the galaxy, they will calculate the size of the LMC itself.

"We can use the size to get an idea of the distance scale of the whole universe and, ultimately, the age of the universe." Given the rate of expansion of the universe, it is possible to date it more accurately.

Garrison said the relevant date may be collected by the space telescope, scheduled for launch from the US shuttle next December.

## Drake awarded George Sarton Medal

PROFESSOR EMERITUS Stillman Drake of the Institute for the History & Philosophy of Science & Technology has been awarded the George Sarton Medal for his contributions to the history of science.

The medal was presented at the annual meeting of the History of Science Society in Cincinnati in December.

Drake, who retired from teaching in 1980, is an authority on Galileo Galilei (1564-1642), the Italian mathematician, astronomer and physicist. His dating of the scientist's work has lead to a new understanding of the development of his thought. In 1978 he published *Galileo at Work*, a scientific biography.

Drake joined the University's institute for the history of science in 1968 as one

of its four original faculty members. He is a fellow of the Royal Society of Canada and has, in the course of his career, twice received Guggenheim fellowships.

Armed with a bachelors degree in philosophy from the University of California at Berkeley, Drake at first undertook a career in business, but history was his avocation and he began to collect the books and manuscripts of the pioneers of modern science and thereafter to publish scholarly articles. (The Thomas Fisher Rare Book Library contains the Drake Collection of 16th- and 17th-century scientific volumes.)

He is one of six recipients of the 1988 awards from the History of Science Society. The international organization, founded in 1924, has 3,000 members.

## Searching for a parking spot?

AN EMPTY parking space is a rare bird on campus these days. While looking for a spot, car owners may wonder what happened to the 450-space parking garage scheduled to open this spring.

Governing Council gave its approval for the project in 1987. The plan was to build the facility on College St. west of the Koffler Student Services Centre. But the project was stalled, says Janice Oliver, assistant vice-president (facilities and administrative systems).

A non-profit housing group approached the University and suggested a joint venture. One proposal would see an 18-storey tower combining the pro-

posed parking lot with cooperative housing and a new city of Toronto library. The latter would replace the Boys & Girls House and the Spaced-Out Library currently facing St. George St.

Because negotiations among the four parties (the city, the University, the library and the non-profit housing group) were protracted, the University's plans were put on hold by the city. The freeze expires in June.

Oliver said the University is pushing for a speedy resolution of the problem and wants either to continue with its original plans or find another site for new parking spaces.

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Sat. 5-11 p.m.

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## Books

The following are books by University of Toronto staff. Where there is multiple authorship or editorship, U of T staff are indicated by an asterisk.

#### January

**Human Brain Electrophysiology: Evoked Potentials and Evoked Magnetic Fields in Science and Medicine**, by David Regan (Elsevier Science Publishing Co., Inc.; 706 pages; \$140 US). This volume reviews evoked potentials and evoked magnetic fields of the human brain relative to the broader contexts of the behavioural sciences, the

anatomy of the human brain and the properties of single nerve cells. There are 372 figures.

#### Catching up

**Human Rights in Canadian Foreign Policy**, edited by Robert O. Matthews and Cranford Pratt (McGill-Queen's University Press; 388 pages; \$37.95 cloth, \$15.95 paper). This book represents a comprehensive effort to present, assess and explain the actual effect which the concern for international human rights has had on Canada's foreign policy.

## HR News & Views

A monthly column from Human Resources

### Keeping the names straight

Employment equity, pay equity and equal opportunity; confused about the differences?

- **Equal opportunity** means equal treatment of employees by an employer. Through equal opportunity, an employer makes a commitment to treat everyone by the same rules and criteria — for example, in deciding whom to hire or promote.

- **Pay equity** ensures that male- and female-dominated job classes of equal or comparable value are paid the same.

- **Employment equity** is broader: it refers to fairness and equity in all aspects of employment for all employees. In order for this to be achieved, special measures may have to be taken. This might include placing job ads in ethnic newspapers or modifying a workstation to accommodate an employee's disability.

To ensure that its employment equity programs reflect the needs of employees, the University will be asking all staff to fill out a brief questionnaire during the week of March 27-31. The questionnaire will contain four simple questions. Watch for details in the March issue of *Tapestry*.

### A reminder for grant holders

If you have employees who are being paid from your grant funds, ensure that those funds are sufficient to cover benefits as well as merit and across-the-board pay increases, traditionally effective July 1.

For more information on salary deductions for benefits, call human resources, benefits section, at 978-2015.

### Calling all critics

Closet movie critics, here's your chance to break into print ... by joining the Noontime Ad Hoc Film & Video Review Board.

You're invited to monthly screenings of films and videos on various topics of interest to U of T staff. You'll be asked to rate each production for its entertainment value, educational content, topicality, applicability to the University and overall impact. Your ratings will be published in this column, serving as a guide to readers.

The following screenings are scheduled for Friday, March 3 at 12.30 p.m. in the auditorium, room 205, of the Claude T. Bissell (library and information science) Building, 140 St. George St.:

**Employment Equity: An Overview** (Facts you should know about employment equity: running time 8 minutes.)  
**An Even Break** (Practical ways for managers to eliminate or minimize barriers to full employment for all workers regardless of gender, disability or race: running time 22 minutes.)

Coming in April ... **Workplace Hustle**, starring Ed Asner, looks at the problem of sexual harassment; **Career Management: When Preparation Meets Opportunity** shows how to make the most of career opportunities.

For more information, call Jackie Baker or Lucy Danesi at 978-6496.

### Job opportunities

Applications for these positions will be accepted until a suitable candidate has been chosen. Submit résumés to the contacts below at 215 Huron St., 8th floor.

**Supervisor of Marketing Services**  
(\$35,246 — 41,466 — 47,686)  
School of Continuing Studies  
Contact: Clara Mione, 978-6297

**Clerk III**  
(\$18,819 — 22,140 — 25,461)  
Institute for Aerospace Studies  
Contact: Kathleen McCarthy, 978-2158

**Copy Machine Operator II**  
(\$17,340 — 20,400 — 23,460)  
Central Services, Medicine  
Contact: Kathleen McCarthy, 978-2158

In April and May, many U of T researchers will recruit laboratory technicians after receiving notification of grant funding. If you're interested in such work, check the job-postings boards during those months.

For a complete list of career opportunities, check your staff bulletin boards or the lists posted at the Human Resources Department.

**The Last Day, the Last Hour: The Currie Libel Trial**, by Robert J. Sharpe (The Osgoode Society and Carswell Legal Publications; 270 pages: \$29.95). A study of the events surrounding the libel suit brought by Sir Arthur Currie to refute the charge that on the last day of the First World War he needlessly sacrificed the lives of Canadian soldiers.

**Canada and South Asia: Issues and Opportunities**, edited by Arthur G. Rubinoff (South Asia Ontario; 78 pages; \$8). A collection of 10 essays that deals with economic and trade matters, political and strategic issues, and the social and cultural context of relations.

**Beckett and Babel: An Investigation into the Status of the Bilingual Work**, by Brian T. Fitch (University of Toronto Press; 246 pages; \$35). In this volume the author sets out to determine the relationships between the French and English versions of a number of Samuel Beckett's novels and shorter prose works, exploring both their genesis through various manuscript drafts and their reception by the reader.

## Pay equity consultant

THE PRESIDENTIAL Advisory Committee on Pay Equity has chosen a consultant to help the University design and implement a plan to pay men and women the same salary in jobs of equal value. The plan must be in place by Jan. 1, 1990, Alec Pathy, vice-president (human resources) told the Business Board at its meeting Feb. 13.

TPF&C, a company specializing in human resources consulting services, submitted one of seven proposals reviewed by the committee. The system used by the company will examine in detail approximately 200 "bench mark" jobs — positions that are representative of the various job classifications at the University.

In addition, more than 400 different positions which do not belong in any of those categories will have to be examined separately, said Mary Ann Ross, pay equity project manager.

Under provincial legislation, the University is required to spend "whatever it takes" to achieve pay equity, said Ross. If a great number of jobs are to receive higher pay, the University can phase in pay equity by spending an amount equal to one percent of its payroll every year until 1995.

Meanwhile, the presidential advisory committee has become a steering committee of the pay equity project. It is chaired by Pathy, and has three members each from the faculty and staff associations and three appointed by the president.



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# Kalow worries about Rushton repercussions

by Karina Dahlin

**P**UBLIC AND ACADEMIC response to the controversial conclusions drawn by University of Western Ontario professor Philippe Rushton about the development of the races could affect the funding of other people's work, says Professor Werner Kalow of pharmacology.

The paper delivered by Rushton to the American Association for the Advancement of Science in San Francisco last month has been denounced by a number of academics as well as politicians.

Kalow is concerned about the repercussions. He worries that in the long term his team will have difficulties because of bias against any research which emphasizes the differences between people.

For the past 40 years, Kalow has researched people's capacity to metabolize certain drugs. Pursuing the natural questions which arose from this work, he was led to pharmacogenetics and the study of racial differences.

After World War II, while living in Berlin, Kalow found that there was a connection between the general state of health and some unusual deaths caused by a local anesthetic drug. He explained the problem by pointing to an enzyme, now known as plasma cholinesterase, which had failed to metabolize a drug. It was the investigation of this enzyme that set the direction for his future work.

## New technique

In 1951 Kalow came to U of T as a lecturer. By then he had developed a new and fast method of measuring this cholinesterase.

Professor Bruno Mendel of biochemistry was credited with the definition of the enzyme. Although he left U of T shortly before Kalow arrived, work was still being done on it.

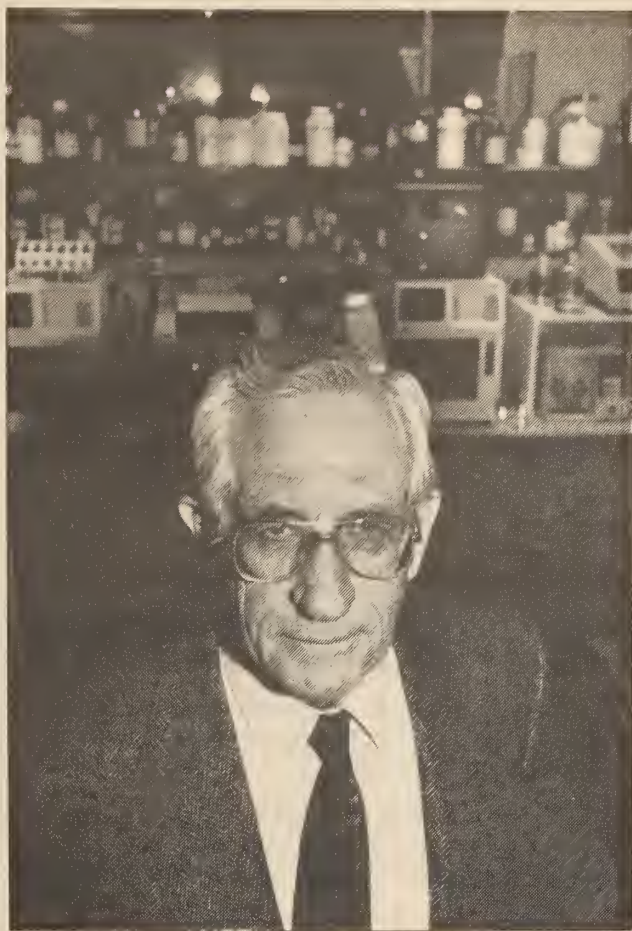
During testing of his new technique, Kalow found in one group of people a variance in the activity of the enzyme. "As a protein abnormality it could only be genetic," he concluded.

"It was really one of the first three initial discoveries of what we now call pharmacogenetics. My interest in the subject was not an arbitrary decision; it was a consequence of an almost chance observation."

Kalow wanted to investigate other abnormal drug reactions. As chair of pharmacology (1966-77) he set up a laboratory with an international team of scientists, most of whom still work with him at pharmacology. They include Professors Bing K. Tang, a chemist educated in Hong Kong; Tadanobu Inaba, a chemist from Japan; two Hungarians — Laszlo Endrenyi, a mathematician and Deszo Kadar, a pharmacologist; and William A. Mahon, an internist from Scotland.

From experiments with fruit flies and mice the scientists knew there had to be a great variation in people's capacity to break down and absorb drugs.

In 1978 they tested a barbiturate on a



Werner Kalow

group of medical students. Because there was a fairly large variance in the results, four students were asked to come back for another test. Kalow knew them only by their student number and was taken aback when all four turned out to be of Chinese descent.

"It was startling," Kalow said. "From then on we started to pay attention to this and found in many respects some metabolic differences. All groups eliminated the drug at about the same rate, but the way they did it was different. It could be medically important because many drugs' side effects are caused by the metabolites."

(A metabolite is the product of the metabolism. For a drug like codeine to

Although the study of genetic differences may be controversial, many scientists have researched them. Scientists have found, among other things, that blood group B is frequent in the Orient and among Jews but infrequent among North American Indians and in white Anglo-Saxon populations.

Reynold Gold, professor of medical genetics, said that Tay Sachs disease is caused by a genetic mutation. It is much more common in Ashkenazi Jews than in gentiles. Similarly, sickle cell anaemia, transmitted by malaria, occurs mainly in black people. Those who get the disease have two mutant genes, while carriers have only one mutant gene and are resistant to malaria.

"Any disease can occur in any race," said Gold. The frequency is what matters from a medical point of view.

work it has to be broken down into, among other substances, morphine. In this case morphine is a metabolite.)

## Valium

Kalow uses the term "pharmacanthropology" to describe his work. In a paper four years ago, he explained why. "Unfortunately merely conducting a systematic comparison of different ethnic or racial groups may arouse suspicion. The use of the word anthropology . . . is meant to signal a scientific effort of biological and medical nature, not necessarily genetic, and remote from all national, social or political initiatives."

Kalow and his team — and scientists anywhere in the world, for that matter — have not done enough research to recommend that a particular drug

not be administered to a certain race. But they are quite convinced, for example, that the reason people in Japan are given a much lower dosage of the tranquilizer valium than those in North America is because of metabolic differences among the Japanese. The enzyme that helps to break down valium is different in the two groups. The result is that the Japanese need a smaller amount.

In the future physicians might have to take into account a patient's race when prescribing a drug, Kalow predicts. He would like the World Health Organization of the United Nations to set up laboratories where uniform tests could be done on the subject.

"By knowing the frequencies of a genetic defect in a given population we can be able to tell where a variability occurs most often."

## Implications

The results could have implications in workplaces. But Kalow lifts a warning finger. Research that shows one race being more susceptible to the hazards of

a certain chemical than another "could easily backfire because it would mean a restriction of freedom to choose employment." But at least, if such conclusions were drawn, an employer could alert the employees in question, he said.

Until last December, Kalow's research had all been funded by Canadian agencies such as the Medical Research Council and the National Research Council. Now he is working on a three-year grant from the US National Cancer Institute to determine the suitability of caffeine as a drug to reflect the body's enzyme activity.

On March 1, the *New England Journal of Medicine* will publish an editorial by Kalow in which he comments on an article on ethnic differences in drug response.

Could Kalow's work be used to substantiate racist theories?

"I am not sure whether I should worry about this. It is nonsensical on various grounds," Kalow said.

"Rushton interpreted information in a valiative manner, which in cases of ethnic comparisons is wrong," Kalow said.

However, scientists should not stick their heads in the sand and avoid pointing out the differences among races, Kalow said. "If there is a clear-cut medical or biological research result it would be wrong to disregard it just because some unrelated area has caused emotional upset."



## UTFA PRESIDENT

The constitution of the University of Toronto Faculty Association requires candidates for President to be nominated by members of the UTFA Council. Members of the Association, however, are invited to suggest names to Council members.

Nomination forms are available in the UTFA office at 720 Spadina Avenue, Suite 419. The Nomination form requires the signature of two members of the UTFA Council and must be returned to the office between 9:00 a.m. on March 1, and 5:00 p.m. on March 14, 1989. If necessary, an election will be conducted by a mailed ballot of the membership in the following two weeks.

See page 16 for reactions by some U of T faculty members to the Rushton controversy.

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# Search committees

## Director, Centre for International Studies

A SEARCH committee has been established to recommend a director for the Centre for International Studies. Members are: Professor J.S. Cohen, assistant dean, School of Graduate Studies (*chair*); Professors R.O. Matthews and Janice Stein, Department of Political Science; T.J. Colton, Centre for Russian & East European Studies; H.N. Janisch, Faculty of Law; G.A. Smith, acting associate dean, social sciences, Faculty of Arts & Science; and H.C. Eastman, Department of Economics; and Helen Vreugdenhil, graduate student; and P.J. White, School of Graduate Studies (*secretary*).

The committee would be pleased to receive comments or submissions from interested persons. These should be forwarded by *March 10* to Professor J.S. Cohen at the School of Graduate Studies, 65 St. George St.

## Director, Institute for International Programs

A COMMITTEE has been established to recommend to the president a director for the Institute for International Programs. Members are: Professor Anthony Melcher, vice-provost (*chair*); Timothy Brodhead, executive director, Canadian Council on International

Cooperation; Professors Jon Cohen, assistant dean, School of Graduate Studies; Rebecca Cook, Faculty of Law; Ursula Franklin, director, Museum Studies Program; John Hastings, associate dean, community health, Faculty of Medicine; Brian Merrilees, Department of French; Arthur Sheps, director, cooperative programs, Scarborough College; Peter Solomon, Centre for Russian & East European Studies; and Stephen Tobe, associate dean, mathematical, physical and life sciences, Faculty of Arts & Science; and Erika Simpson, graduate student, Department of Political Science; and Stella Gamble, Office of the Vice-President and Provost (*secretary*).

Nominations and comments would be

welcome. These may be submitted to Stella Gamble, room 225, Simcoe Hall, or to any member of the committee as soon as possible and ideally before *February 28*.

## Director, Institute for Environmental Studies

A SEARCH committee has been established to recommend a director for the Institute for Environmental Studies. Members are: Professor Derek McCammond, associate dean, Division III, School of Graduate Studies (*chair*); Professors B.J. Adams, Department of Civil Engineering; T.N. Doob, Centre of Criminology; V.J. Higgins, Department of Botany; R.R. White, Institute for Environmental Studies; and H.A. Regier and S.S. Tobe, Department of Zoology; and Rob Jedicke, graduate student.

The committee would be pleased to receive comments or submissions from interested persons. These should be forwarded by *March 10* to Professor Derek McCammond at the School of Graduate Studies, 63 St. George St.

## Director, Centre for Russian & East European Studies

A SEARCH committee has been established to recommend a director for the Centre for Russian & East European Studies. The term of office will begin July 1. Members are: Professor P.W. Gooch, associate dean, Division I, School of Graduate Studies (*chair*); Professors M.E. Cook, associate dean, humanities, Faculty of Arts & Science; E.W. Dowler, Department of History; Victor Falkenheim and Richard Sandbrook, Department of Political Science; Kenneth Lantz, Department of Slavic Languages & Literatures; and J.E. Pesando, Institute for Policy Analysis.

The committee invites suggestions or nominations from interested persons. These should be sent to Professor P.W. Gooch at the School of Graduate Studies, 63 St. George St.

## TRAVEL PROGRAM

**ALL-SUITE HOTELS:** We are presently looking into the "all-suite" hotel as an affordable alternative to traditional hotel accommodation.

Besides the many personal and business amenities/facilities (including conference/meeting rooms) offered by these establishments, the suites themselves offer separate bedroom and living room areas, as well as kitchenettes (with microwave oven, refrigerator, wet bar, place settings and cutlery).

For further information contact the **Travel Office, 978-5173**.

**CAR RENTAL THEFT & DAMAGE INSURANCE:** When charging a car rental on your University Travel Card, remember that you are automatically covered by free *primary* "Theft & Damage Insurance" for up to the full value of most rental cars, provided you decline any Collision Damage Waiver (CDW) or similar dealer option.

Any inquiries, contact the Travel Program Co-Ordinator at 978-5173, or the Car Rental Theft & Damage Claims Unit for American Express toll free at 1-800-243-0198.

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The Card is an excellent way for you to consolidate and track your business expenses (independently from credit on personal cards); greatly reduces the need for cash advances; and its use provides the statistics necessary for negotiations for special rates based on volume of business.

Applications for the University Travel Card are available from your departmental business officer or from the Travel Program Co-Ordinator at 978-5173.

**enRoute:** We are presently looking at the possibility of offering the **enRoute Corporate Card** to U of T staff members as an alternate University Travel Card, and we would like to gauge what the demand might be.

If you would be interested in the enRoute Card, contact the Travel Co-Ordinator, c/o Purchasing, 215 Huron St., 7th fl.; Tel. 978-5173.

## CUSTOMS/TRAFFIC

**INVOICES:** Courier and freight bills received by departments/staff must be appropriated and sent directly to customs office promptly for payment. Unappropriated bills will be assessed \$5.00 handling charge.

**PERMITS:** Export Permits are required for all computer equipment taken or shipped out of Canada to anywhere other than the U.S.A. Allow 3 weeks for processing.

**FREE TRADE:** Duty free or reduced rates on imported commodities can be obtained only if the vendor certifies that the goods are of U.S. manufacture and issues a "Certificate of Origin."

**GASOLINE REFUNDS:** Gasoline tax refunds for January-December 1988 for University-owned vehicles will be processed March 31, 1989. Please begin to prepare your refund applications now and send them to the customs office for processing. For information call **978-7447**.

**FREE TRADE:** Planning to purchase goods while travelling in the U.S.? Canada Customs has issued a pamphlet "Free Trade & the Traveller" available at customs offices and airport lounges or from the U of T Purchasing Dept. at **978-2353**.

Any specific inquiries should be directed to a regional customs office.

## EQUIPMENT

The "Equipment Exchange" is a service co-ordinated by the Purchasing Department to facilitate the recycling of surplus equipment within the University.

**PLEASE NOTE:** Equipment moved from research to administration or sold outside the University is subject to tax and duty. Contact Customs, commodity taxation section if unsure.

Description	Qty	Model	Age	Fair Mkt Value	Contact
Microcomputer	1	Digital Equip. PDP 11/23	1983	\$3,000	G. Close 978-3112
Green shelves with brackets (no uprights)	300			Best Offer	M. Fiorillo 978-2984
Hard Copy Terminals	7	Diablo	1976/77	\$100	S. Hoke 978-8761
Data Terminal CRT	2	TeleVideo	1974/77	\$100	" "
Typewriter	1	IBM Model 72	1967	\$50	" "
Flash Heads (old style/round plugs)	4	Bowens		\$25/ea.	S. Epstein 978-8984
Cine Tripod & Dolly	1	Linhof		\$1,000	" "
35mm SLR Camera (w/Photomic Head)	1	Nikon F		\$250	" "
Lenses (all non AI):					
24mm f2.8	1	Nikkor N		\$225	
135mm f2.8	1	Nikkor Q		\$200	
55mm f1.2 (can be AI converted)	1	Nikkor S		\$200	
35mm f2.8	1	Nikkor PC		\$500	
AC Power Pack (new — in box)	1	Metz N20		\$100	" "
Telephoto Flash Adaptor (new w/case)	1	Metz Televersatz 60-22		\$75	" "
Macro Zoom Super 8 Movie Camera (brand new — in box with new case)	1	Bolex 155		\$50	" "
Macro Zoom Super 8 Movie Camera w/case	1	Bolex 155		\$25	" "
Film Viewer/Editor (brand new)	1	Zeiss Ikon Moviscop S8		\$25	" "
Field Camera (no lense) c/w: grip universal finder, sports finder, new case	1	Linhof Technika 4x5		\$2,500	" "
Stereo Camera	1	Realist		\$250	" "
8x10 hard rubber tanks & floating lids	6	Kodak		\$50/ea.	" "
Slide Copier	1	Bowens Illumitran		\$150	" "
Floodlights (new in boxes)	3	Colortran Quartz King 1000		\$150/ea.	" "
Print Drier (large)	1	Gerstel		\$75	" "



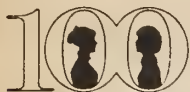
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# Events

## Lectures



### Women as Agents of Change: Population, Environment and Development.

*Monday, February 27*  
Nafis Sadik, United Nations Fund for Population Activities; women's centenary lecture. George Ignatieff Theatre, Devonshire Place. 4.30 p.m.

### Erasmus' Understanding of Faith and Piety.

*Tuesday, February 28*  
Prof. Manfred Hoffmann, Emory University. Senior Common Room, Burwash Hall, Victoria College. 4.30 p.m. (Renaissance & Reformation Colloquium)

### Canada a Leader in Verification at the United Nations?

*Tuesday, February 28*  
Walter Dorn, representative of Science for Peace at the United Nations and Douglas Scott, president of the Markham group. 179 University College. 8 p.m. (Science for Peace)

### Ramesses III in the Valley of the Kings.

*Wednesday, March 1*  
Prof. Marek L. Marciniak, University of California at Berkeley. Lecture room, McLaughlin Planetarium. 5.15 p.m. (Archaeological Institute of America, Toronto Society)

### Anecdotes and Humour in the University

*Wednesday, March 1*  
Prof. Jack McLeod, Department of Political Science; Wit and Wisdom at the University of Toronto lecture series. 7th floor conference room, Faculty of Management, 246 Bloor St. W. 6 to 7.30 p.m. Tickets \$50 for series of eight lectures, \$10 individual lectures. *Information: Dr. Ed Thompson, 978-8991 (UTAA)*

### Observations.

*Wednesday, March 1*  
Robert Mangurian, Southern

## Colloquia

### Dual Loyalties: Religious and Political Expressions of Babylonian Jewish Patriotism.

*Tuesday, February 28*  
Prof. Isaiah Gafni, Hebrew University of Jerusalem; visiting Harvard University. Upper Library, Massey College. 4 p.m. (Religious Studies and Joseph & Gertie Schwartz Memorial Lecture Fund)

### Spatial Coherence of Non-equilibrium Systems.

*Thursday, March 2*  
G.M. Grinstein, IBM Yorktown T.J. Watson Research Center. 102 McLennan Physical Laboratories. 4.10 p.m. (Physics)

### Verified Elimination of Nuclear-Weapons-Grade Material.

*Thursday, March 9*  
T.B. Taylor, Nova Inc., New York. 102 McLennan Physical Laboratories. 4.10 p.m. (Physics)

California Institute of Architecture, Santa Monica. 102 Mechanical Engineering Building. 7 p.m. (Architecture & Landscape Architecture and Architecture Students' Union)

### The Crisis of Governability in India.

*Thursday, March 2*  
Prof. Atul Kohli, Princeton University. Upper Library, Massey College. 4 p.m. (South Asian Studies)

### The Quest for the Historical Ba'al Shem Tov.

*Thursday, March 2*  
Prof. Murray J. Rosman, Bar Ilan University, Israel; Joseph and Gertie Schwartz memorial lecture. 205 Claude T. Bissell Building. 8 p.m. (Jewish Studies)

### Hafiz and the Poetic Wisdom of Iran.

*Friday, March 3*  
Prof. Hossein Ziai, University of California at Los Angeles; annual Persian Civilization lecture. 205 Claude T. Bissell Building. 7.30 p.m. (Middle East & Islamic Studies, Arts & Science and Iranian Students' Cultural Association)

### The Toronto SkyDome: Architecture and Engineering on a Grand Scale.

*Sunday, March 5*  
Roderick Robbie and Michael Allen, RAN Consortium. Auditorium, Medical Sciences Building. 3 p.m. (Royal Canadian Institute)

### Contemporary Stage Design in China.

*Monday, March 6*  
Prof. Hu Miao-Sheng, Shanghai Theatre Institute. UC Playhouse, 79A St. George St. 7.30 p.m.

## Meetings & Conferences

### A Bell Jar of Victorians

*Thursday, March 2*  
David Lank, investment banker and author; meeting of Friends of the Thomas Fisher Rare Book Library. Thomas Fisher Rare Book Library. 8 p.m.

### Structure: The Black Box of Community Ecology.

*Friday, March 3 and Saturday, March 4*  
Two-day symposium will explore a broad range of questions concerning, and methods of quantifying, community structure. There will be 12 speakers and a panel discussion. 110 Ramsay Wright Zoological Laboratories. 9 a.m. to 4 p.m. *Information: 978-3475. (Zoology)*

### Language and Culture: German Reverberations of the French Revolution.

*Friday, March 3 and Saturday, March 4*  
An international conference. Alumni Hall, Victoria College. *Information: 978-6070. (Germanic Languages & Literatures)*

### Committee on Academic Policy & Programs.

*Wednesday, March 8*  
Council Chamber, Simcoe Hall. 4 p.m.

(UC Drama Program and Arts & Science)

### Personal Politics and Sexuality.

*Monday, March 6*  
Prof. Didi Khayatt, York University and Helen Lenskyj, OISE; Popular Feminism lecture and discussion series. Room 2-212/2-213, Ontario Institute for Studies in Education, 252 Bloor St. W. 8 p.m. (Women's Studies, OISE)

### Future Directions in Canadian Arts Policy.

*Tuesday, March 7*  
Timothy Porteous, Ontario College of Art. R3232 recreation wing, Scarborough College. 5 p.m.

### Recent Archaeological Discoveries in Eastern Syria: A Report on Three Seasons of Excavations by the Canadian Expedition to Syria at Tell Atli on the Upper Habur River.

*Wednesday, March 8*  
Prof. Michel Fortin, Université Laval. Auditorium, Medical Sciences Building. 8 p.m. (Canadian Society for Mesopotamian Studies)

### Mozart: The Magic Flute.

*Sunday, March 12*  
Prof. M. Owen Lee, St. Michael's College. Odette Student Centre, Brennan Hall, St. Michael's College. 2 p.m. Tickets \$10. *Information: 926-7260. (St. Michael's College)*

### Sports Medicine — What Is It?

*Sunday, March 12*  
Prof. Derek Mackesy, University of Western Ontario. Auditorium, Medical Sciences Building. 3 p.m. (Royal Canadian Institute)

### Governing Council.

*Thursday, March 9*  
Council Chamber, Simcoe Hall. 4.30 p.m.

### The Report of the Social Assistance Review Committee of Ontario: Prospects for Implementation.

*Thursday, March 9*  
A symposium. Speaker: George Thomson, chair of the committee. Respondents: Prof. Sheila Neysmith, Faculty of Social Work and Janet Mosher, Faculty of Law. North auditorium, Ontario Institute for Studies in Education, 252 Bloor St. W. 2 to 5 p.m. (Social Work, Law and the Laidlaw Foundation)

### The Unmaking of Margins.

*Friday, March 10 and Saturday, March 11*  
Graduate students from all over North America will address the notion of margins in contemporary society, in literature and in contemporary critical theory. Guest speaker: Prof. Henry Louis Gates, Jr., Cornell University. Alumni Hall, Victoria College. *Information: Jennifer Bates or Christine Roulston, Centre for Comparative Literature, 14-045 Robarts Library, or call 978-5917 Fridays only, 2 to 4 p.m. (Comparative Literature)*

### The State of the Environment.

*Monday, March 13*  
Prof. Barry Commoner, Queens College, New York; American Studies Committee lecture series. Seely Hall, Trinity College. 12 noon. (Political Science)

### Didyma: The Planning of a Greek Temple.

*Monday, March 13*  
Prof. Lothar Haselberger, Bayerische Akademie der Wissenschaften und Ludwig Maximilians Universität. George Ignatieff Theatre, Devonshire Place. 4.30 p.m. (Fine Art)

### Interactions between Water Mites and Their Insect Hosts: An Ecological Approach to Parasitism.

*Thursday, March 2*  
Prof. Bruce Smith, University of New Brunswick. 2082 South Building, Erindale College. 5 p.m. (Erindale Biology)

### Jewish Life in Magnate Latafundia in the Ukraine in the 18th Century.

*Thursday, March 2*  
Prof. Murray J. Rosman, Bar Ilan University, Israel. 4049 Robarts Library, 4 to 6 p.m. (Joseph & Gertie Schwartz Lecture Fund)

### Attribution Theory: An Integrated Model.

*Friday, March 3*  
Prof. John Medcof, McMaster University. Room 101, Faculty of Management, 246 Bloor St. W. 2 to 4 p.m. (Management)

### Humanism in Poland: Transformation of an Italian Concept.

*Friday, March 3*  
Jacqueline Gloski, CRRS; senior fellow seminar. 323 Pratt Library, Victoria College. 2.10 p.m. (Reformation & Renaissance Studies)

### Community Ecology: Scale and Comparative Limnology.

*Friday, March 3*  
Prof. Stephen Carpenter, University of Notre Dame; in conjunction with symposium on Structure: The Black Box of Community Ecology. 110 Ramsay Wright Zoological Laboratories. 3 p.m. (Zoology)

### Spatial Pattern and Ecological Analysis.

*Friday, March 3*  
Prof. Pierre Legendre, Université de Montréal; in conjunction with symposium on Structure: The Black Box of Community Ecology. 110 Ramsay Wright Zoological Laboratories. 4 p.m. (Zoology)

### Interactions between a2 Adrenergic Receptors and the Adenylate Cyclase Inhibitory G-Protein, Gi.

*Monday, March 6*  
Prof. Richard Neubig, University of Michigan. 519 Pharmacy Building. 12 noon. (Pharmacy)



Illustration for "Humanism in Poland: Transformation of an Italian Concept." See Seminars.

## Seminars

### Formulating Processing Network Models: Viability Theory.

*Monday, March 6*  
Prof. John Chinneck, Carleton University. 211 Rosebrugh Building. 3 p.m. (Industrial Engineering)

### Recent Advances of "Engineered" Quantum Structures in Semiconductors.

*Tuesday, March 7*  
Leo Esaki, Thomas J. Watson Research Center. 134 McLennan Physical Laboratories. 4 p.m. (Ontario Laser & Lightwave Research Centre)

### Literacy, Business and the New Management.

*Wednesday, March 8*  
Prof. Dorothy Smith, OISE; Literacy and Computing series. Room 3-312, Ontario Institute for Studies in Education, 252 Bloor St. W. 2 p.m. (McLuhan Program, Centre for Applied Cognitive Science, OISE and Focus on the Nature & Development of Literacy, OISE)

### The Changing Public and Political Perceptions of the Need for Environmental Change.

*Wednesday, March 8*  
Roy Aitken, INCO. Croft Chapter House, University College. 4 p.m. (IES)

### National Majority, Religious Minority: Poles in the Greek Catholic Church of Inter-war Poland.

*Thursday, March 9*  
Andrzej Zieba, Chair of Ukrainian Studies. 4049 Robarts Library. 4 to 6 p.m. (Ukrainian Studies)

### The Nature and Role of Cyanide Resistant Respiration in Higher Plants.

*Thursday, March 9*  
Prof. James N. Siedow, Duke University. 2082 South Building, Erindale College. 5 p.m. (Erindale Biology)

### Information Technology, Social Transformation and Class Structure.

*Friday, March 10*  
Prof. David Wolfe, Department of Political Science. Dean's conference room, Claude T. Bissell Building. 2 to 3.30 p.m. (McLuhan Program)

### Renaissance Drama.

*Friday, March 10*  
Theodore De Welles, CRRS; senior fellow seminar. 323 Pratt Library, Victoria College. 2.10 p.m. (Reformation & Renaissance Studies)

### Forest Decline Research into Sugar Maple Decline.

*Friday, March 10*  
Prof. T.C. Hutchinson, Department of Botany and Institute for Environmental Studies. 7 Botany Building. 3.30 p.m. (Botany)

### Coral Reef Fishes: What They Can Tell Us about Ecology.

*Friday, March 10*  
Prof. Peter Sale, University of New Hampshire. 3101N South Building, Erindale College. 12 noon. (Erindale Biology)

### Material-Tissue Interactions in Medical Implants.

*Monday, March 13*  
Pierre Blais, Health & Welfare Canada. 519 Pharmacy Building. 12 noon. (Pharmacy)

## Films

### Innis Winter Film Program.

*Thursday, March 2*  
Progressive Slips of Pleasure; Kustom Kar Kommandos; in conjunction with literary studies week. Tickets \$3.

*Saturday, March 4*  
Letters from a Dead Man. 4 p.m.

*Sunday, March 5*  
Solovetskaia Vlast/Glasnost and Film; in conjunction with ROM Rep Cinema. 4.30. Tickets \$2.

*Thursday, March 9*  
Open screening of new avant-garde films. Tickets \$3. Screenings at Innis College Town Hall at 7 p.m. unless noted otherwise. *Information: 588-8940 or 978-7790.*

### Rock Around the Kremlin.

*Thursday, March 2*  
A tour of the rock clubs in Moscow and Leningrad. ROM Theatre. 7 p.m. *Information: 586-5549. (Russian & East European Studies, ROM and York University)*



## Events

### Music

#### ROYAL CONSERVATORY OF MUSIC

##### Noon Hour Series.

*Wednesday, March 1*  
Hwaeja Lee, clavichord, harpsichord, organ and piano.

*Wednesday, March 8*  
Gayle Hennick, piano.

*Monday, March 13*  
Great Lakes Quintet: Guy Few and Mary Jay, trumpet; Lise Vaugois, French horn; Rachel Thomas, trombone; and Thomas Allen, bass trombone. Concert Hall. 12.15 p.m.

##### Young Artist Series.

*Thursday, March 2*  
Performed by students in the Performance Diploma and Artist Diploma Programs.

*Wednesday, March 8*  
Terry Tam, violin and Vera Danchenko, piano. Concert Hall. 8 p.m.

##### Twilight Series.

*Thursday, March 9*  
Richard Kob, theorbo and Baroque lute. Concert Hall. 5.15 p.m.  
Tickets \$2, students and seniors \$1.

#### Royal Conservatory Orchestra.

*Friday, March 10*  
Victor Feldbrill, conductor. Church of the Redeemer, Bloor St.W. at Avenue Rd. 8 p.m.  
Tickets \$9, students and seniors \$6. RCM box office, 978-5470.

#### Art Gallery of Ontario Series.

*Sunday, March 12*  
Senya Trubashnik, oboe and Larysa Trubashnik, piano. Walker Court, Art Gallery of Ontario. 3 p.m.

*Information on all Conservatory concerts available from the publicity office, 978-3771.*

#### FACULTY OF MUSIC EDWARD JOHNSON BUILDING

##### Thursday Noon Series.

*Thursday, March 2*  
U of T Percussion Ensemble; Robin Engelman, director.

*Thursday, March 9*  
Featuring works by student composers. Walter Hall. 12.10 p.m.

#### Haydn's La Cantarina and Tchaikovsky's Iolanta.

*Friday, March 3 and Saturday, March 4; Friday, March 10 and Saturday, March 11*  
Opera Division presentation. MacMillan Theatre. 8 p.m.  
Tickets \$17, students and seniors \$11.

##### Faculty Recital Series.

*Sunday, March 5*  
Douglas Bodle, organ. St. Andrew's Presbyterian Church, 75 Simcoe St. 2 p.m.  
Tickets \$12, students and seniors \$7.

##### Contemporary Music Ensemble.

*Wednesday, March 8*  
Robin Engelman, conductor. Walter Hall. 8 p.m.  
Tickets \$4.

*Information on all events in the Edward Johnson Building available from the box office, 978-3744.*

##### Yiddish, Anyone?

*Thursday, March 2*  
An evening of Yiddish in music and song performed by the Flying Bulgar Klezmer Band. Brennan Hall, St. Michael's College. 6 p.m.  
(German and the Joseph & Gertie Schwartz Memorial Lecture Fund)



#### SCARBOROUGH COLLEGE

##### Sunday Serenade.

*Sunday, March 5*  
Martin Humphreys, piano; fourth in series of Sunday afternoon concerts. Meeting Place. 3 p.m.  
*Information: 284-3243.*

#### Orpheus Choir of Toronto.

*Friday, March 10*  
North American premiere of *Missa dei Patris*; directed by Brainerd Blyden-Taylor. St. James' Cathedral, Church and King Sts. 8.15 p.m.  
Advance tickets \$14, students and seniors \$11; single tickets at the door \$15, students and seniors \$12.  
*Information: 462-0160.*

#### ROBARTS LIBRARY

##### Works on Paper.

*To February 28*  
An exhibition of student art; sponsored by the Department of Fine Art.

##### Art, Hand-Made Paper from Brazil.

*March 1 to March 31*  
Co-sponsored by the Brazilian embassy. Main Display Area.  
Hours: Monday to Friday, 8.30 a.m. to 12 midnight; Saturday, 9 a.m. to 10 p.m.; Sunday, 1 to 10 p.m.  
(Public & Community Relations)

#### VICTORIA UNIVERSITY

##### Books about Books.

*To February 28*  
From the collection of Jane Finnan, 1988 winner of The F. David Hoeniger Book Collection Prize. E.J. Pratt Library.  
Hours: Monday to Thursday, 8.45 a.m. to 12 midnight; Friday, 8.45 a.m. to 6 p.m.; Saturday, 12 noon to 5 p.m.; Sunday, 1 to 10 p.m.

#### JUSTINA M. BARNICKE GALLERY, HART HOUSE

*To March 2*

##### David Birnie.

Paintings and drawings. East Gallery.

### Plays & Readings

##### Beyond Mozambique.

*Tuesday, February 28 to Saturday, March 7*  
By George F. Walker, directed by Renée Dykeman. Graduate Centre for the Study of Drama studio production. The Glen Morris Studio, 4 Glen Morris St. 8 p.m.  
Tickets \$3.  
*Reservations: Monday to Friday 11 a.m. to 5 p.m., 978-7986.*

##### UC Readings.

*Thursday, March 2*  
Howard Engel, Benny Cooperman's Second Adventure. 2106 Sidney Smith Hall. 7.45 p.m.  
(UC)

##### So To Speak.

April Hickox, photo etchings. West Gallery.

##### Hart House Art Competition.

*March 9 to March 30*  
Annual exhibit of photographs; sponsored by the Hart House Art Committee. Both galleries.  
Gallery Hours: Monday, 11 a.m. to 6 p.m.; Tuesday to Thursday, 11 a.m. to 8 p.m.; Saturday and Sunday, 1 to 4 p.m.

#### SCARBOROUGH COLLEGE

##### Presentation and Desire.

*To March 3*  
Anne-Marie Cosgrove, paintings.

##### Graduating Student Show.

*March 13 to March 31*  
Exhibition by senior members of the fine art studio program at Scarborough College. The Gallery. Gallery Hours: Monday to Friday, 11 a.m. to 4 p.m.

#### SCHOOL OF ARCHITECTURE & LANDSCAPE ARCHITECTURE

##### New Housing in Vienna.

*To March 16*  
Courtesy of the Austrian embassy. The Galleries, 230 College St.

##### Crimen Injuria.

*Friday, March 3 and Saturday, March 4*  
By Miriam Tlali, directed by Tadek Lis. UC Playhouse, 79A St. George St. 8 p.m.  
Tickets \$4, students and seniors \$3.  
*Reservations: 978-6307 or 978-6638.*  
(UC)

##### Antigone.

*Wednesday, March 8 to Saturday, March 11*  
By Jean Anouilh, directed by Karlheinz Theil. Scarborough College drama production. TV Studio One. 8 p.m.  
*Reservations: 284-3204.*

## Events deadlines

Please note that information for Events listings must be received in writing at the *Bulletin* offices, 45 Willcocks St., by the following times:

Issue of March 13, for events taking place March 13 to April 3:  
*Monday, February 27*

Issue of April 3, for events taking place April 3 to April 17:  
*Monday, March 20*

### Exhibitions



#### THOMAS FISHER RARE BOOK LIBRARY

##### Portugal in Chronicle and Epic.

*To March 31*  
Books and manuscripts relating to Portuguese literature. 1st and 2nd floors.  
Hours: Monday to Friday, 9 a.m. to 5 p.m.

Gallery hours: Monday to Friday, 9 a.m. to 5 p.m.

### Miscellany

##### Language Week.

*To Friday, March 3*  
Sponsored by the Centre for University Studies in Languages, Scarborough College. A partial listing of events below.  
*Tuesday, February 28*  
A Greek Enclave in Syria, documentary video. R4224, recreation wing. 11 a.m.

*Friday, March 3*  
Francophonie ou Francophonie, lecture by Moustafa Marrouchi, Department of Comparative Literature. Council Chamber, S403, science wing. 10.30 to 11.30 a.m.

Marilla Bertelli e le Sue Marionette, Mariella Bertilli uses puppets in Italian story telling. 11.30 a.m. to 12.30 p.m.

Latin Rhythms, live music from Latin America. Meeting Place. 1 to 2 p.m.

*Kamouraska*, French film. H214, humanities wing. 2 to 4 p.m.

*La Vie devant soi*, French film. H305, humanities wing. 2 to 4 p.m.

*Der Mann an Der Mauer*, German film. R4208, recreation wing. 2 to 4 p.m.

##### The Canada Elections Act: Room for Reform.

*Monday, February 27*  
Ron Gould, Elections Canada; Canadian public policy workshop. 3050 Sidney Smith Hall. 4 to 6 p.m.  
(Political Science)

##### Literary Studies Week.

*Monday, February 27 to Friday, March 3*  
A series of lectures and films around the topic of Sex and Violence. Keynote speaker: Prof. Margaret Homans of Yale University. Other guest speakers include Prof. Linda Hutcheon, York University; Joe Adamson, McMaster University; and Erika Ritter, writer-in-residence. For further information look for large black and white posters on campus.

Monday to Wednesday, Alumni Hall, Victoria College. 12 noon to 4 p.m.  
Thursday and Friday, Lecture Hall, Emmanuel College. 12 noon to 4 p.m.  
Films, Thursday at Innis Town Hall. 7 p.m.

##### Some Implications of the Coase Theorem.

*Wednesday, March 1*  
Prof. Janet Landa, Yale University; law and economics workshop series. Solarium, Falconer Hall, Faculty of Law. 12 noon to 1.45 p.m.  
Fee \$3.  
*Information and registration: Joyce Williams, 978-6767.*  
(Law)

##### Ethics in Business.

*Saturday, March 4*  
Facilitator: Paul Dunn, alumnus, USMC. A panel discussion and workshop outlining three philosophical theories applicable to business. Brennan Assembly Hall, University of St. Michael's College. 9 a.m. to 2.30 p.m.  
Fee: \$40.  
*Information and registration: 926-7254 or 926-1300, ext. 3324.*  
(USMC)

##### The 1988 Election Campaign: Managing the Liberal Party Campaign.

*Monday, March 6*  
The Hon. Michael Kirby, Senate of Canada; Canadian public policy workshop. 3050 Sidney Smith Hall. 4 to 6 p.m.  
(Political Science)

##### Shakespeare's A Winter Tale.

*Thursday, March 9*  
University of Toronto Women's Association theatre night. Robert Gill Theatre, Koffler Student Services Centre. 8 p.m.  
*Tickets and information: 926-0527.*

##### Public Debate.

*Monday, March 13*  
Ivan Dziuba, noted Ukrainian dissident, will be featured speaker. Panelists: Robert W. Poetschke, Department of External Affairs; John Cruickshank, *The Globe and Mail*; Prof. Timothy Colton, Centre for Russian & East European Studies; and Prof. Wolfram Burghardt, University of Western Ontario. Moderator: Paul R. Magocsi, Chair of Ukrainian Studies. Convocation Hall. 8 p.m.  
(Ukrainian Studies, Russian & East European Studies and Public & Community Relations)

## The American Studies Committee Lecture Series

## Barry Commoner

# The State of the Environment

Monday, March 13, 12 noon  
Seely Hall  
Trinity College

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## Research Notices

For further information and application forms for the following agencies, please contact ORA at 978-2163.

### Baxter Healthcare Corporation

Funds are offered by the Renal Therapy Division of the Baxter Corporation for research in uremia and its treatment. Two areas have been identified for proposals: the cardiovascular response to dialysis; research broadly relevant to improved understanding of uremic pathophysiology and/or treatment of uremia. Further details and the application format are available from ORA. Deadline is April 30.

### Health & Welfare Canada

Investigators and supervisors of students with NHRDP grants and awards are reminded that failure to submit progress reports or final research reports may result in an interruption of funding or forfeit of the final payment to the University. Investigators may also be declared ineligible for further funding from the agency.

### Medical Research Council

A new clinical scientist award program has been announced. It will consist of two phases: post-specialty training, and

the initiation of a career as an independent investigator. In order to apply for the second phase, the candidate must have received at least three years of support in the first phase.

The clinical scientist award research training phase is offered to candidates who have recently completed specialty clinical training (or will shortly do so) and who will be undertaking, or intend to undertake, research training followed by a career as a clinical scientist. Candidates must hold an MD degree and be within one year of completion of specialty training. Candidates may also hold a PhD but this is not a requirement. The award is tenable in Canada or abroad. The application package (MRC 36) is available from ORA.

Deadlines for 1989 only are April 1 and November 1. Thereafter there will be one deadline of November 1.

### Year-End Requirements for Research Grants Ending March 31

Investigators are reminded that a number of granting agencies have specific requirements with respect to the carry forward of unexpended funds at the termination of grants. Grantees are advised to refer to the terms of their grants or contracts

as detailed in the individual agency guidelines or administrative digests.

### Upcoming Deadline Dates

Atkinson Charitable Foundation — research grants, internal deadline at ORA: April 1.

Banting Research Foundation — research grants: March 1.

Canadian Association on Gerontology — NORCEN post-doctoral fellowships and internships: March 1.

Canadian Cystic Fibrosis Foundation — personnel: April 1.

Canadian Foundation for Ileitis & Colitis — research grants: March 1.

Canadian Heart Foundation — symposia applications: March 1.

CNIB — Ross C. Purse fellowship: April 1.

Easter Seal Research Institute — summer studentships (candidates to apply via dean's office, Faculty of Medicine): March 1 (please note change for 1989); research and personnel grants: April 15.

Fight for Sight, Inc. — research grants and personnel: March 1.

Health Innovation Fund/Premier's Council on Health Strategy — research projects: March 1.

Health & Welfare Canada — AIDS related resubmissions/new proposals outside of the special competitions: May 15.

Juvenile Diabetes Foundation International (US) — research grants: March 1.

Medical Research Council — clinical scientist research training phase; MRC groups (new and renewals), letter of intent; MRC/NHRDP joint program in nursing (letter of intent); studentships (renewals); fellowships (new and renewals): April 1.

NCIC, Terry Fox research programs — program grants, expansion awards (contact agency directly): April 15.

NSERC — international scientific exchange awards; international collaborative research grants; bilateral exchange program: March 1; undergraduate student applications (NSERC-related departments) March 17 at ORA; non-NSERC-related depart-

ments: March 10 at ORA; Japanese science and technology agency fellowships: March 31.

Ontario Ministry of Health — research projects (health care systems research): May 1 (please note change).

Ontario Thoracic Society — support from the 1988-89 block term grant: any time.

Parkinson Foundation of Canada — research grants: March 30.

Physicians' Services Inc. Foundation — research

grants: March 24.

Retinitis Pigmentosa Foundation — research grants: March 15.

SSHRC — travel grants for international representation; aid to occasional scholarly conferences in Canada (July — Oct.): March 30; support to specialized collections: March 31;

strategic grants (thematic programs); Canadian studies research tools (CSRT): April 1.

U of T, Life Sciences Committee of the Research Board

— summer undergraduate and graduate ranked department applications: February 28;

Connaught Fund — phase I new staff grants (nominations): March 1; Humanities & Social Sciences Committee of the Research Board — grants-in-aid: April 1; conference and travel grants: April 15.

Whitehall Foundation Inc. — research grants (life sciences): March 1.

## PhD Orals

Graduate faculty please call the PhD oral examination office at 978-5258 for information regarding time and location for these listings.

### Thursday, March 2

Fiona Mary Sparrow, Department of English, "The Spirit in the Ascent": The African Writings of Margaret Laurence." Prof. W.J. Keith.

### Friday, March 3

Yoko Chiba, Graduate Centre for the Study of Drama, "W.B. Yeats and Noh: From Japonisme to Zen." Prof. M.J. Sidnell.

### Wednesday, March 8

Terence Arthur Graham, Department of Aerospace Science & Engineering, "Pitch-Heave Dynamics Models for an Air Cushion Vehicle." Prof. P.A. Sullivan.

### Thursday, March 9

Michael George Fehlings, Institute of Medical Science, "An Evaluation of Calcium Channel Blockade and Direct Current Stimulation for Promoting Recovery after Acute Experimental Spinal Cord Injury." Prof. C.H. Tator.

Bonita Marlene Muir, Department of Psychology, "Operators' Trust in and Use of Auto Automatics in a Supervisory Process Control Task!" Prof. N.P. Moray.

### Friday, March 10

Nancy Maureen Jane Brodie, Department of Chemistry, "Systematic Kinetic Studies of Some Ru3 and Rh4 Carbonyl Clusters." Prof. A.J. Poe.

Nancy Jean Eames, Department of Education, "An Educational and Neuropsychological Framework for the Clinical Conception and Diagnosis of Children with Learning Disabilities." Prof. O. Weininger.

John Sachs, Department of Education, "Bootstrap Confidence Intervals for Ability Estimates in Item Response Models." Prof. R. Traub.

Juris Richard Strautmanis, Department of Chemistry, "The Synthesis of N(10)-Acetyludistomin L." Prof. T.W.J. Still.

### Tuesday, March 14

Barbara M.S. Pulleyblank, Department of Immunology, "Studies of the Relations of Major Histocompatibility Antigens and Fc Receptors Using Human Blood Mononuclear Leukocytes." Prof. K.J. Dornington.

## Positions Elsewhere

Notice of the following vacancies outside the University has been received by the Office of the President.

### Ryerson Polytechnical Institute

**Vice-President Academic** Applications and nominations should be forwarded no later than March 1 to: Search Committee for Vice-President Academic, Office of the President, Ryerson Polytechnical Institute, 350 Victoria St., Toronto, Ont. M5B 3K3

### Trent University

#### Vice-President (University Services)

Applications should be sent by March 30 to: N.E. Smith, University Secretary, Trent

University, Peterborough, Ont. K9J 7B8

### Pennsylvania State University

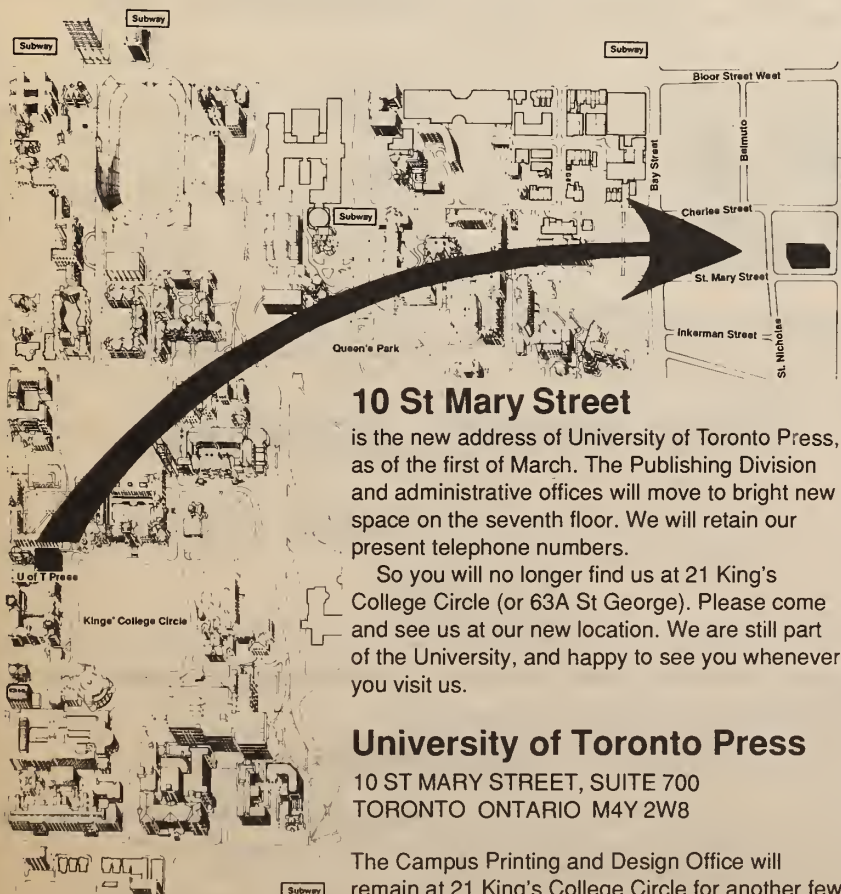
#### Dean, College of Education

Nominations and applications should be sent to: Donald J. Willower, Professor of Education, Chair, Education Dean Search Committee, Pennsylvania State University, 201 Old Main, University Park, PA 16802

#### Vice-Provost; Vice-Provost and Dean, Undergraduate Education; and Senior Vice-President and Dean, Commonwealth Educational System

For further information, contact: Bryce Jordan, President, Pennsylvania State University at the address above.

## We are moving, but not very far



### 10 St Mary Street

is the new address of University of Toronto Press, as of the first of March. The Publishing Division and administrative offices will move to bright new space on the seventh floor. We will retain our present telephone numbers.

So you will no longer find us at 21 King's College Circle (or 63A St George). Please come and see us at our new location. We are still part of the University, and happy to see you whenever you visit us.

### University of Toronto Press

10 ST MARY STREET, SUITE 700  
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The Campus Printing and Design Office will remain at 21 King's College Circle for another few weeks, before moving to 47 Willcocks Street.

## COUNCIL OF THE SCHOOL OF GRADUATE STUDIES NOTICE OF ELECTIONS STUDENT NOMINATIONS OPEN

Student representatives will be elected for each of the four divisions of the Graduate School. Nomination forms may be obtained at any Graduate Department office, the Graduate Students' Union, and the School of Graduate Studies as of February 27, 1989. Student nominations will be open until **March 10, 1989 at 12:00 noon**. Complete nomination forms must be returned to the Office of the Secretary, School of Graduate Studies, prior to this time to be valid. Elected members will serve for one year until June 30, 1990 or for two years, if so indicated, to June 30, 1991.

### Constituencies

#### Division I — The Humanities (3 seats to be filled)

Classical Studies  
Comparative Literature  
Drama  
East Asian Studies  
English  
French Language & Literature  
Germanic Languages & Literatures  
History  
History of Art  
History & Philosophy of Science  
and Technology  
Italian Studies  
Linguistics  
Medieval Studies  
Middle East & Islamic Studies  
Museum Studies  
Music  
Near Eastern Studies  
Philosophy  
Religious Studies  
Slavic Languages & Literatures  
South Asian Studies  
Spanish & Portuguese

#### Division III — The Physical Sciences (1 seat to be filled)

Aerospace Science & Engineering  
Architecture  
Astronomy  
Biomedical Engineering  
Chemical Engineering & Applied Chemistry  
Chemistry  
Civil Engineering  
Computer Science  
Electrical Engineering  
Environmental Studies  
Geology  
Industrial Engineering  
Mathematics & Applied Mathematics  
Mechanical Engineering  
Metallurgy & Materials Science  
Physics  
Statistics  
Theoretical Astrophysics  
Transportation

#### Division II — The Social Sciences (3 seats to be filled)

Anthropology  
Criminology  
Economics  
Education  
Geography  
Industrial Relations  
International Studies  
Law  
Library & Information Science  
Management  
Master's in Teaching  
McLuhan Program in Culture and Technology  
Planning  
Policy Analysis  
Political Science  
Russian & Eastern European Studies  
Social Work  
Sociology  
Urban & Community Studies

#### Division IV — The Life Sciences (2 seats to be filled)

Anatomy  
Biochemistry  
Botany  
Clinical Biochemistry  
Community Health  
Dentistry  
Forestry  
Immunology  
Medical Biophysics  
Medical Science  
Microbiology  
Nursing  
Nutritional Sciences  
Pathology  
Pharmacology  
Pharmacy  
Physiology  
Psychology  
Speech Pathology  
Zoology



# Upwardly mobile teaching responsibilities

LIKE MANY OTHER faculty members, I have the feeling that I am working harder than ever before. In an effort to reduce this sensation or at least manage it, I recently tried to take a long view of my teaching responsibilities. The results were surprising and more than a little depressing.

My first full-time teaching appointment was in 1958-59 at a major Ivy League university. Records from that year have not survived, but in the following year I worked with a total of 28 undergraduates, and I had no post-graduate students.

When I came to Toronto in 1960-61 I had 75 undergraduates of my own and I helped a senior professor by giving tutorials. This year I have 582 undergraduates. Although most of the marking is now done by a flotilla of teaching assistants, I have to manage that flotilla, which did not exist in 1959-61.

These days I also have several PhD students. However one might weigh such commitments, I am now responsible for almost eight times as many undergraduates as in 1960-61, and almost 20 times as many as in 1959-60.

My salary has risen too. But if I divide my salary by the number of undergraduates for whom I am responsible, the result is striking. In nominal (current) dollars the salary outlay per student is considerably less in 1988-89 than in 1959-60, and much less than double what it was in 1960-61. The general price level, meanwhile, has more than tripled, so that the real salary expenditure per student is far less than it was 30 years ago.

My own real income has certainly risen. But it looks as if that entire increase has come from an increase in my "productivity" — the number of undergraduate students I teach. Certainly their 1988-89 fees pay my salary, with many tens of thousands of dollars to spare. Perhaps it follows that, from the University's point of view, my scholarly publications must be "freebies."

The result depends on one's precise teaching duties in a particular year. But I suspect that for many senior faculty members in the social sciences the pattern would be much the same, especially if one were to give some weight to doctoral supervision and to involvement in the larger world of scholarship. What about faculty members in the sciences, the humanities, and the professional faculties? It would be interesting to know.

Ian M. Drummond  
Department of Economics

A classified ad costs \$10 for up to 35 words and \$.25 for each additional word. Your name counts as one word as does your phone number, but the components of your address will each be counted as a word. No charge for postal code.

A cheque or money order payable to University of Toronto must accompany your ad.

Ads must be submitted in writing, 10 days before Bulletin publication date, to Nancy Bush, Department of Communications, 45 Willcocks St., Toronto, Ontario M5S 1C7. Ads will not be accepted over the phone.

## Accommodation Rentals Available — Metro & Area

**Beaches:** Furnished, beautifully renovated 4-bedroom house, available May 1 — August 31, 1989. Designer kitchen, study, two decks, hardwood floors, garage, laundry. Walk to beach, Queen Street, Nature Trail. 100 yards from 24-hour TTC. \$1,500 per month inclusive. 699-4912.

**Professor's Rosedale Victorian flat.** 1300 square feet in (converted) triplex, fully furnished and newly decorated, two bedrooms, living-room, dining-room, eat-in kitchen, 16 x 8 sun-deck, washer/dryer, cable TV, parking, but car not required since walking is 4 minutes Bloor-Yonge, 15 minutes campus. References requested. 921-9358.

**House for rent.** 5-Bedroom, on Palmerston Gardens, near Dupont and Bathurst, 1/2 hour walk from U of T, 10 minutes from subway. April 1 — July 31, \$1,750/month, utilities included, parking, yard, patio, beautiful neighbourhood, furnished, fireplace. 978-8100, 538-8065.

**April 27 — August 31.** Large Victorian, 4 beds, 2 studies, decks, fenced garden, sauna, parking, 10 minutes St. George. \$1,200 monthly includes gardener. No smoking. 978-6280 or evenings 922-2253.

**House for rent.** Sheppard/Willowdale Avenues. 3-bedroom, detached, recreation room, lovely kitchen, 1 1/2 baths, 2 car park, storage shed. Very close to TTC. Appliances. No pets. March 1. 485-3435.

**Bay & Gerrard.** Furnished executive condo for rent. Deluxe 1-bedroom, plus den/bedroom & solarium, parking, 3 appliances, unobstructed south/west view, 12th floor. Call 275-4940.

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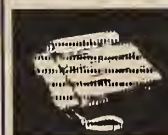
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Fourth Annual

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# Classified

Continued from page 14.

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# Rushton controversy raises questions

by Karina Dahlin

**I**S THE PHILIPPE RUSHTON controversy a major issue or a tempest in an academic teapot? Is it a test of academic freedom? Is competence the crux of the debate? Is tenure (with all its strengths and weaknesses) the real issue?

Judging from the reaction by people at U of T, Rushton's theories and the resulting debate represent all of these elements. Opposing and sometimes strong opinions were expressed during a small, informal poll of a number of faculty carried out by the *Bulletin*.

Some said Rushton should be allowed to carry out his research without interference while others said it was unethical to study racial differences. Few of those interviewed for this article had actually read any of Rushton's papers and were careful to point that out.

One thing is clear: these issues concern all universities. As many pointed out, a situation like the Rushton case could occur at U of T. Over the past 40 years several cases have forced the University to begin to answer the most basic questions about academic freedom and responsibility.

From 1939 to 1941 several attempts were made by politicians and members of the University's board of governors to fire Frank Underhill, a professor of history who had taught at U of T since 1927. His political views were unpopular with the provincial government of the time. On one occasion he was accused by a member of the legislature of "hurling insults at the British empire." However, in the end he was allowed to stay. He taught at the University until 1955.

In 1974, two graduate students were suspended for several years for threatening and intimidating Edward Banfield, a visiting professor. Banfield was prevented from delivering a scheduled lecture on "Adam Smith after Two Centuries." He was accused of holding racist views.

Just four years ago emotions were stirred up when US psychologist Arthur Jensen came to U of T to lecture in connection with the annual meeting of the Society for Philosophy & Psychology. Jensen is known for his belief that the intelligence of blacks and whites differs because of genetic diversity.

Several people interviewed referred to an article by Reynold Gold, associate professor of medical genetics, currently on sabbatical leave in Montreal. His piece "Facing the truths of genetic research" was published in *The Globe and Mail* on Feb. 13.

Gold commented that "It is not scientific discovery, but hatred, that causes racial persecution. The science, whether sound or unsound, is merely dragged in to justify persecution that is carried out for other reasons."

A letter from Professor Jacques Berger of zoology was published in *The Globe and Mail* Feb. 11. He said that "If ever there was an effective argument for academic tenure and the freedom to espouse and advocate unpopular views in academic circles, the faulty arguments of Prof. Rushton stand as grim reminders of the need for such a policy."

**Professor Fergus Craik, chair of psychology**

"Darwinism caused much greater offence than Rushton's theories," said Craik. "I believe strongly that he should be allowed to do this kind of research. Firing him would be preposterous." Rushton has not transgressed any university rules, Craik said. He has pub-

lished in reputable journals and it is legitimate for him to investigate how genetics determine behaviour.

But Rushton had exercised poor judgement, Craik said. "He knows extremely well that his views are used for political ends, both for and against [racism]." If Rushton was serious about wanting other scientists to review his research, the Geraldo Rivera show was the wrong place, said Craik. "It seems he is desperate for publicity at any cost."

Craik thought Rushton's theories "go way beyond his data and beyond interesting speculation."

**Joan Foley, provost**

The area of Rushton's research should be viewed as a scientific issue. The proper reaction to his theories should not be an emotional one, nor was it right in this case to ask what research was socially acceptable, the provost said.

"The principle of how one should engage with Rushton's views is the kind of thing that could arise in any university at any time."

It is important to protect academic freedom, Foley said, "but academic freedom is not a cover for incompetence."

She stressed that competence has nothing to do with how controversial the work is. U of T would never take disciplinary action simply because a theory was contentious. Research with agreeable conclusions could just as easily be based on bad work; peer review was the way to determine the com-



petence question. Only the most extreme case would, after thorough evaluation, lead to dismissal, Foley said.

**Fred Wilson, president of the faculty association**

The question of genes versus environment is far from settled and people should be allowed to research the subject. "For everyone who is right there are 10 who are wrong — but that is how we learn," Wilson said.

Wilson believed that Rushton was stating an extreme point of view and probably had drawn some unwarranted conclusions. However, this should not be a ground for dismissal.

Academic freedom has to do with such things as the right to do research without interference and the right to speak out publicly, Wilson said. If this situation had occurred at U of T, he would expect the faculty association and

## Responding to Rushton

In 1988, *Personality and Individual Differences* (vol. 9, no. 6) published a paper by Professor Philippe Rushton of the Department of Psychology at the University of Western Ontario.

The paper was called "Race Differences in Behaviour: A Review and Evolutionary Analysis." It is similar to the address delivered by Rushton on Jan. 19 to the American Association for the Advancement of Science in San Francisco.

Rushton summarized his paper as follows:

"Racial differences exist on numerous heritable behaviour traits such that Caucasoids fall between Mongoloids and Negroids. Across samples, ages and time periods, this pattern is observed on estimates made of brain size and intelligence ...; maturation rate (age to walk alone, age of puberty, age of death); personality and temperament ...; sexual restraint (gamete production, intercourse frequency, size of geni-

talia); and social organization (marital stability, mental health, law abidingness)."

Rushton's paper was followed by a critique from psychology professors Marvin Zuckerman of the University of Delaware and Nathan Brody of Wesleyan University in Connecticut. They stated:

"We find Rushton's paper flawed in terms of its obscure logic, selection of data, biased analyses of data, selective review of the literature, ignoring of large group difference within the three major races (that are often larger than those between the three racial groupings) and aggregating that which should not be aggregated, lack of any examinations of possible interactions of race with social class in spite of the fact that social class shows a relationship with most of the psychological and behavioral variables studied, and a failure to assess statistical and scientific significance in terms of magnitude of effects."

the administration to defend the professor in question.

"It was disturbing the way the premier of Ontario jumped in and said Rushton should be fired," Wilson said. He wondered whether there is enough protection for faculty members in circumstances such as this.

"Professors in Canada have fought for the right to be protected from vindictive or soft administrations. We will see — Rushton's case may be a test case."

**Professor Margaret Thompson, geneticist**

Different peoples differ genetically but the extent to which they do is not known — and even then we cannot place

Rushton controversy represented "a missed opportunity," she said. In the past, the academic community dealt with similar issues by ignoring them, she recalled. "That is an extremely efficient method. It should have been done here."

**Professor Tom Alloway, psychology**

There is an ethical problem in pursuing the kind of research done by Rushton, says the professor of sociobiology. "I am inclined to think that it is unethical to examine the whole question of racial differences when the findings cannot have an ethical application."

In one course taught by Alloway and a colleague they have decided not to mention the human species. "Part of the reason is that we are experts on insect behaviour. Part of it is that I have scruples regarding the ethics of studying racial and gender differences."

**Professor T. Edward Reid, zoology and anthropology**

"It is unfortunate that Rushton said what he did. It can give aid and comfort to extreme individuals and to governments like the one in South Africa."

As a human geneticist Reid believes that there are differences among the races, physical as well as mental. But it is impossible to measure the mental dif-

ferences — "nobody can know for certain what they are" — because of the strong effects of the environment. If the mental differences could be measured "the question is what do we do about them."

Reid thinks that Rushton sincerely believes his theories are facts, but he said other scientists would not draw the conclusions drawn by Rushton.

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**Professor Ellen Larsen, zoology**

Larsen, a genetics teacher, found that silence is the best way to handle a dilemma of this nature. In that respect, the

**Joan Randall, chair, Governing Council**

"I am quite surprised and pleased that the matter has received as much critical discussion as it has," Randall said.

"The level of scientific judgement has been very high. In the end it will be the arbiter of the controversy."

The questions raised "make people realize that even in the 80s we need to protect our thinkers, be they right or wrong," Randall said.